

22335_US_Sequence_Listing_060807.txt
SEQUENCE LISTING

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Claudia Schoch
Roche Molecular Systems

<120> Method for Distinguishing AML-Specific FLT-3 Length Mutations from TKD Mutations

<130> 22335-US

<140> US 10/575,600

<141> 2004-11-04

<150> PCT/EP2004/012470

<151> 2003-11-04

<160> 239

<170> PatentIn version 3.4

<210> 1

<211> 491

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n = any nucleotide

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ggccgtggta gttactcaaa cagagggaac tacaacagag gtggaatgcc caacagaggg	360
aactacaacc agaacttcag aggacgagga aacaatcgtg gctacaaaaa tcaatctcag	420
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tgtgactggt atgattatca gaatatgtct taacttttta gggcaaagtt aacactgaaa	180
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<212> DNA
<213> Homo sapiens

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<210> 9
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 ttctcagtgg caac 434

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 <212> DNA
 <213> Homo sapiens

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<400> 12
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 <213> Homo sapiens

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 <213> Homo sapiens

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 agattttttt acacaaagaa acttaatgct gtattaataa attcagtgtg tagcttcaat 360
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<210> 15
 <211> 529
 <212> DNA
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 <212> DNA
 <213> Homo sapiens

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 <211> 534
 <212> DNA
 <213> Homo sapiens

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<210> 19
 <211> 452
 <212> DNA
 <213> Homo sapiens

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tggtgcttct ttctgatctc tagtggagat ctctttgact gctgtagtac taaagtgtac	300
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agagtgcctt tagccttttt taaaaactcc atttatatta catttgtaac catgatactt	420
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<210> 20
 <211> 536
 <212> DNA
 <213> Homo sapiens

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gaaccaccaa gagacagaaa gaaacagaaa aacattaaac acagtgggaa tatcactttt	360
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ggaaccatta aagagatcct ggggactgcc cagtcagtgg gctgtaatgt tgatggccgc	480
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<210> 21
 <211> 555
 <212> DNA
 <213> Homo sapiens

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aatattttaat gtatttagag ttcctcatgt tgcagggttt aagaaatctg accaccaag	420
gtcatgtgac ttttctgtac tgttaaactt cattgtaata aaatgagaga aaaatttatg	480
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555

<210> 22
 <211> 511
 <212> DNA
 <213> Homo sapiens

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 gtattttatg catgctctgt aatttgattt t 511

<210> 23
 <211> 181
 <212> DNA
 <213> Homo sapiens

<400> 23
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 c 181

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 <211> 562
 <212> DNA
 <213> Homo sapiens

<400> 24
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 cattccagtg gaagacgaat gtaacctgcg tggatgatgtg acaactgttt cctccctgac 180
 cccagaggat ctggctctag gttgggatca atcctgaatt tcgttatgtg ttaatttact 240
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 gcggttgaaa tagtcccaca tgtgggtcatc agaaatagca ttcctcatac caatatagga 360
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 taactgtact aaatcctttt tc 562

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 <212> DNA
 <213> Homo sapiens

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 gaacaccaac caaccaaggt ttaagtgatt aataggcttg agcaccgggt ggcagatgtt 180
 ctatgcagtg tggttcaagt ttctttgacc gcacttatat gcattgctaa tatggaattt 240
 aagataccat acacagtctc tcatggacct atctctattg tagaattatg acttatgtct 300
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 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(544)
 <223> n = any nucleotide

<400> 26
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 ggacctgacc accaccagga cccagaact gtggagtcag tggcagcatg cagcgcccc 300
 ttgggaaagc tttaggcacc agcctgcaac ccattcgagc agccacgtag gctgcacca 360
 gcaaagccac aggcacgggg ctacctgang ccttgggggc ccaatccctg ctccagtgtg 420
 tccgtgaggg agcacacgaa gtcaaaagag attattctct tcccacagat accttttctc 480
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 taaa 544

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<212> DNA
 <213> Homo sapiens

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<210> 28
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<400> 28
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 gtgccctgga caccaacagc tcgaagagca cctcctcctt cccctgcccg gcagggcact 180
 tcaacggctt ccgcacggtc atccgcccct tctacctgac caactcctca ggtgtggact 240
 agacgcgtgg ccaagggtgg tgagaaccgg agaaccacag gacgccctca ctgcaggctc 300
 cctcctcgg cttccttcct ctctgcaatg accttcaaca accggccacc agatgtcgcc 360
 ctactcacct gaggctcagc ttcaagaaat tactggaagg cttccactag ggtccaccag 420
 gagttctccc accacctcac cagtttccag gtggttaag 458

<210> 29
 <211> 553
 <212> DNA
 <213> Homo sapiens

<400> 29
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 gtttcctttt tgggtacttat tactgctaag tatttcccag cacatgaaac cttatTTTTT 180
 ccaaagccag aaccagatga gtaaaggagt aagaaccttg cctgaacatc cttccttccc 240
 acccatcgct gtgtgttagt tcccaacatc gaatgtgtac aacttaagtt ggtcctttac 300
 actcaggctt tcaactatttc ctttaaaatg aggatgatta ttttcaaggc cctcagcata 360
 tttgtatagt tgcttgctg atataaatgc aatattaatg cttttaaagt atgaatctat 420
 gccaaagatc acttggttgtt ttactaaaga aagattactt agaggaaata agaaaaatca 480
 tgtttgctct cccggttctt ccagtgggtt gagacactgg ttacacttt atgccggatg 540
 tgcttttctc caa 553

<210> 30
 <211> 512

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<212> DNA
 <213> Homo sapiens

<400> 30
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 cggcaagaag gcccagctca acattggcaa tgtgctccct gtgggcacca tgcctgaggg 120
 tacaatcgtg tgctgcctgg aggagaagcc tggagaccgt ggcaagctgg cccgggcatc 180
 agggaaactat gccaccgtta tctcccacaa ccctgagacc aagaagaccc gtgtgaagct 240
 gccctccggc tccaagaagg ttatctcctc agccaacaga gctgtgggtg gtgtgggtggc 300
 tggaggtggc cgaattgaca aacccatctt gaaggctggc cgggcgtacc acaaataaa 360
 ggcaaagagg aactgctggc caccagtagc ggggtgtggc atgaatcctg tggagcatcc 420
 ttttggaggt ggcaaccacc agcacatcgg caagccctcc accatccgca gagatgcccc 480
 tgctggccgc aaagtgggtc tcattgctgc cc 512

<210> 31
 <211> 411
 <212> DNA
 <213> Homo sapiens

<400> 31
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 ccgctcctaa gtgtgtcatt tgtctcagag aacagcgtcg tggctgctgg ccatgactgc 120
 tgcccaatgc tctttatcta cgatgaccgc ggctgcctga ccttcgtctc caagttagat 180
 attccaaaac agagcatcca acgcaacatg tctgccatgg aacgcttccg caacatggac 240
 aagagagcca caactgagga ccgcaacacg gccttgagga cgctgcacca gaatagcatc 300
 actcaagtct ctatttatga ggtggacaag caagattgtc gcaaattttg cactactggc 360
 atcgatggag ccatgacaat ttgggatttc aagaccctcg agtcttccat c 411

<210> 32
 <211> 469
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (36)..(36)
 <223> n = any nucleotide

<400> 32
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 ccgtcgatga tcgcaactgg aagtgtggga gcagccatct gtgggctcca gcaggatgag 120
 gaagtgagct cgctcacttg tgatgccctg actgagctgc tggctaagat caccaacaca 180
 gacgtggatt gtctcaaagc ttgccaggag cagattgagg cggtgctcct caatagcctg 240

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cagcagtacc gtcaggacca acgtgacgga tccaagtcgg aggatgaact ggaccaagcc	300
agcacccta cagacgtgcg ggatatcgac ctgtgaggat gccagttggg ccgaaagaga	360
gagacgcgtc cataatctgg tctcttcttc tttctggttg tttttgttct ttgtgtttta	420
gggtgaaact taaaaaaaaa attctgcccc cacctagatc atattttaa	469

<210> 33
 <211> 426
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(426)
 <223> n = any nucleotide

<400> 33	
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ctaccangac tcaagagaca ncccttcctg ctgacattcc catcacaaca ttcctcagac	180
aagcctgtaa actaaaatct gttaccattc tgatggcaca gaaggatctt aattcccatc	240
tctatacttc tcctttggac atggaaagaa aagttattgc tggtgcaaag atagatggct	300
gaacatcagg gtgtggcatt ttgttcctt tcccgttttt ttttttttta ttgttgttgt	360
taattttatt gcaaagttgt attcagcgta cttgaatttt tcttcctctc cacttcttag	420
aggcat	426

<210> 34
 <211> 484
 <212> DNA
 <213> Homo sapiens

<400> 34	
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ttttattttt aattggttta gttcttaact gctggccaac tcttacatcc ccagcaaatc	120
atcggggccat tggatttttt ccattatgtt catcaccctt atatcatgta cctcagatct	180
ctctctctct cctctctctc agttatatag tttcttgtct tggacttttt ttttcttttc	240
tttttctttt tttttttgct ttaaaacaag tgtgatgcca tatcaagtcc atgttattct	300
ctcacagtgt actctataag aggtgtgggt gtctgttttg tcaggatgtt agaaagtgtc	360
gataagtagc atgatcagtg tatgcgaaaa ggtttttagg aagtatggca aaaatgttgt	420
attggctatg atggtgacat gatatagtca gctgcctttt aagaggtctt atctgttcag	480
tggt	484

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<210> 35
 <211> 523
 <212> DNA
 <213> Homo sapiens

<400> 35
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 ccagagaccc tggtccagcc atccttcacg gggatggagt ctgctggcat ccatgaaacc 120
 acctacaaca gcatcatgaa gtgtgatatt gacatcagga aggacctcta tgctaacaat 180
 gtcctatcag ggggcaccac tatgtaccct ggcattgccg accgaatgca gaaggagatc 240
 acggccctag caccagcac catgaagatc aagatcattg cccctccgga gcgcaaatac 300
 tctgtctgga tcggtggctc catcctggcc tctctgtcca ccttccagca gatgtggatc 360
 agcaaacagg aatacgatga agccgggcct tccattgtcc accgcaaata cttctaaaac 420
 actttcctgc tcctctctgt ctctagcaca caactgtgaa tgtcctgtgg aattatgcct 480
 tcagttcttt tccaaatcat tcctagccaa agctctgact cgt 523

<210> 36
 <211> 379
 <212> DNA
 <213> Homo sapiens

<400> 36
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 agcctgctcg aaacttttagt cggcctgatg gcttagagga ctctgaggat agcaaagaag 120
 atgagaatgt gcctactgct cctgatcctc caagtcaaca ttacgtggg catgggacag 180
 gcttttgctt tgattccagc tttgatgttc acaagaagtg tccccctctgt gagttaatgt 240
 ttcctcctaa ctatgatcag agcaaatttg aagaacatgt tgaaagtcac tggaagggtgt 300
 gcccgatgtg cagcgagcag ttccctcctg actatgacca gcagggtgtt gaaaggcatg 360
 tgcagaccca ttttgatca 379

<210> 37
 <211> 138
 <212> DNA
 <213> Homo sapiens

<400> 37
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 tactgcactt tctgaccagg agctactttg agtttggtgt tactaggatc agggtcagtc 120
 tttggcttat caataaat 138

<210> 38
 <211> 489
 <212> DNA

<213> Homo sapiens

<400> 38
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 aactttacaa atccatgaag ggtgctggca cagatgagaa gactctgacc aggatcatgg 120
 tatcccgcag tgagattgac ctgctcaaca tccggaggga attcattgag aaatatgaca 180
 agtctctcca ccaagccatt gaggggtgaca cctccggaga cttcctgaag gccttgctgg 240
 ctctctgtgg tggtagaggac tagggccaca gctttggcgg gcacttctgc caagaaatgg 300
 ttatcagcac cagccgccat ggccaagcct gattgttcca gctccagaga ctaaggaagg 360
 ggcaggggtg gggggagggg ttgggttggg ctcttatctt catggagctt aggaaacgct 420
 cccactccca cgggccatcg agggccagca cggctgagcg gtgaaaaacc gtagccatag 480
 atcctgtcc 489

<210> 39
 <211> 506
 <212> DNA
 <213> Homo sapiens

<400> 39
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 gtctgtcctg ttcgggctgc tgctcgtcct ggctgtcttc tgccattcag gtcatagcct 120
 gcagtgtac aactgtccta acccaactgc tgactgcaaa acagccgtca attgttcac 180
 tgattttgat gcgtgtctca ttaccaaagc tgggttacia gtgtataaca agtggttgaa 240
 gtttgagcat tgcaatttca acgacgtcac aaccgcttg agggaaaatg agctaacgta 300
 ctactgctgc aagaaggacc tgtgtaactt taacgaacag cttgaaaatg gtgggacatc 360
 cttatcagag aaaacagttc ttctgctggg gactccattt ctggcagcag cctggagcct 420
 tcatccctaa gtcaacacca ggagagcttc tcccaaactc cccgttcctg cgtagtccgc 480
 tttctcttgc tgccacattc taaagg 506

<210> 40
 <211> 421
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (35)..(35)
 <223> n = any nucleotide

<400> 40
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 ttgagtgggt tctctgcagc cctcagatta ttttctctt ggctccttgg atgtagtcag 120

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ttagcatcat tagtacatct ttggaggggtg gggcaggagt atatgagcat cctctctcac 180
 atggaacgct ttcataaact tcagggatcc cgtgttgcca tggaggcatg ccaaagtgtc 240
 catatgtggg tgtcagtcag ggacaacaag atccttaatg cagagctaga ggacttctgg 300
 caggggaagtg gggaagtgtt ccagatagca gggcatgaaa acttagagag gtacaagtgg 360
 ctgaaaatcg agtttttcct ctgtctttaa attttatatg ggctttgtta tcttccactg 420
 g 421

<210> 41
 <211> 484
 <212> DNA
 <213> Homo sapiens

<400> 41
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 tggcagtatt aagtgtgctt attttaaagt ttactggtag aaaggcagtt caggatgtg 120
 tgtatatagt atgaatgcag tggggacacc ctttgtggtt acagtttgag acttccaaag 180
 gtcacctta ataacaacag atctgcaggg gtatgtttta ccatctgcat ccagcctcct 240
 gctaactcct agctgactca gcatagattg tataaaatac ctttgtaacg gctcttagca 300
 cactcacaga tgtttgaggc tttcagaagc tcttctaaaa aatgatacac acctttcaca 360
 agggcaaact ttttcctttt ccctgtgtat tctagtgaat gaatctcaag attcagtaga 420
 cctaattgaca tttgtatttt atgatcttg ctgtatttaa tggcataggc tgacttttgc 480
 agat 484

<210> 42
 <211> 513
 <212> DNA
 <213> Homo sapiens

<400> 42
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 tgaccttaac ctgtgtgggc tgacagagga cccagatctt caggtttctg cgatgcagca 120
 ccagacagtg ctggaactga cagagactgg ggtggaggcg gctgcagcct ccgccatctc 180
 tgtggcccg caccctgctgg tctttgaagt gcagcagccc ttcctcttcg tgctctggga 240
 ccagcagcac aagttccctg tcttcatggg gcgagtatat gaccccagg cctgagacct 300
 gcaggatcag gttagggcga gcgctacctc tccagcctca gctctcagtt gcagccctgc 360
 tgctgcctgc ctggacttgc cctgccacc tcctgcctca ggtgtccgct atccaccaa 420
 agggctcctg agggctctgg caagggacct gcttctatta gcccttctcc atggccctgc 480
 catgctctcc aaaccacttt ttgcagcttt ctc 513

22335_US_Sequence_Listing_060807.txt

<210> 43
 <211> 497
 <212> DNA
 <213> Homo sapiens

<400> 43
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 ctctgtacga catggcccgg tatgagcggg agcagtatgc cgatcgggcg cgg tactcag 120
 ccttttaaag cttgagggtg gatgtgtgtg ggctgaaatt ccgagctgcg gttgtgcatg 180
 agaatacacc cttcgtggta ccccatctcc gggacgttct cggctctgtg cgttcagtcc 240
 ctcaggaacc gtggacctta atttaccttg ctaagttcag accttctctt cctttccttt 300
 cctttcctct cctgcccatt ttcctgttct tctgtccttc aatacttctg tagcttccca 360
 ttcattgttct cttctcccag caggcctcat tgtgtgcaga aactgtggtg ggggctgtgc 420
 tgtctcctcc ctgcctcctg cctcctgcgg ctgttggtt tgggaatgac cttggtgaga 480
 gtctcactgc tccaggg 497

<210> 44
 <211> 526
 <212> DNA
 <213> Homo sapiens

<400> 44
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 ctcccgtgc tcagccgagg cctgcctgga gcccagatc accccttcct actacaccac 120
 ttctgacgct gtcatttcca ctgagaccgt cttcattgtg gagatctccc tgacatgcaa 180
 gaacaggggtc cagaacatgg ctctctatgc tgacgtcggg ggaaaacaat tccctgtcac 240
 tcgaggccag gatgtggggc gttatcagggt gtcctggagc ctggaccaca agagcgccca 300
 cgcaggcacc tatgagggtta gattcttcga cgaggagtcc tacagcctcc tcaggaaggc 360
 tcagaggaat aacgaggaca tttccatcat cccgcctctg tttacagtca gcgtggacca 420
 tcggggcact tggaacgggc cctgggtgtc cactgaggtg ctggctgcgg cgatcggcct 480
 tgtgatctac tacttggcct tcagtgcgaa gagccacatc caggcc 526

<210> 45
 <211> 185
 <212> DNA
 <213> Homo sapiens

<400> 45
 ctgatgccat caaagagggtc ttcgacaata aattccacat catcggcgca gtgggcatcg 60
 gcattgccgt ggtcatgata tttggcatga tcttcagtat gatcttgtgc tgtgctatcc 120
 gcaggaaccg cgagatgggtc tagagtcagc ttacatccct gagcaggaaa gtttaccat 180
 gaaga 185

22335_US_Sequence_Listing_060807.txt

<210> 46
 <211> 499
 <212> DNA
 <213> Homo sapiens

<400> 46
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 cgtacattga gaatgagaag ctcatctcag gaaagcgcca ggagctggtc accaagatcg 120
 accacatcct ggatgccctg tagccccctgc ccgcatcctc cagggggccc agggtgccctg 180
 cactttgctg tggcaggcag attgggtggt agtgggaggt tgtgcatgga ggccagtgaa 240
 agctgacatc tgtaaaaggc cttcaaggaa gagaaaccag gccctgcgtc aggcagtgtg 300
 agtttgccgt ttgtccttaa ctttcttttt tttttttttt aaaaaagaaa actttaaaaa 360
 aactcccatt aaaaacaaaa catctttgtg ttgtgaacaa aggaattttc aatatttgat 420
 tgggtattctg ttctgaagtc taggataattt ttcagcctat aaagccccct gttttatgcc 480
 cttctaattc tgatgtttg 499

<210> 47
 <211> 554
 <212> DNA
 <213> Homo sapiens

<400> 47
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 ctccctgtct ccagctgcct gggcccggaa gggctttggt tccttctctg ggtctgattt 120
 tctcactgaa ctccaccgac caactgccct aagccccagc ggccctccagg gcccagggtc 180
 gagacccaaa cccccaaaat ccaaaacttc tcttgaaaag ttcagggacc gtccagggga 240
 gatggggagg agatatggag tgagtcacct gctccagaag atgccagctt ctctctccag 300
 ggtgcttagt tggttttgcc caccctcac tccccaggga gctccgggga cagcttcctc 360
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 ccctctggtg tgtggtgagg ggctttctct tccccctcct gtttcagacc cccccatttc 480
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 atgttttttg ttat 554

<210> 48
 <211> 547
 <212> DNA
 <213> Homo sapiens

<400> 48
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 gctgcgagac aacctcacc cctggacgag cgaccagcag gatgaagaag caggagaagg 120

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caactgaaga tccttcagat cccctggccc ttccttcacc caccaccccc atcatcacccg	180
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gctactcaga tctgcactcc tgtctcttgg gaagcagttt cagataaatc atgggcattg	300
ctggactgat gggtgctttg agcccacagg agctcccttt ttgaattgtg tggagaagtg	360
tgttctgatg aggcatTTTA ctatgcctgt tgatctatgg gaaatctagg cgaaagtaat	420
ggggaagatt agaaagaatt agccaaccag gctacagttg atatttAAAA gatccattta	480
aaacaagctg atagtgtttc gttaagcagt acatcttgtg catgcaaaaa tgaattcacc	540
cctccca	547

<210> 49
 <211> 525
 <212> DNA
 <213> Homo sapiens

<400> 49 aggctgtact ggatgagctc aaacaaaagg aagaccgaga aaaggagcaa ctcagctctt	60
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tcttcctagt ccttttaatg ctgtgtgttc tgtaagtTc tttcatttgt ttgtaatttt	240
gtttttcagc aaatttatat tgttttgcta ggtgttcatc ctataagaag caggatcgta	300
taggcagaaa aatgattgta ggaaagttgc aggattagcg gaatgtatgg ttcaacctta	360
attatagctt cattgcagga ctttactgtt tctccatttt ctagaagctg ctgttgctgc	420
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<210> 50
 <211> 360
 <212> DNA
 <213> Homo sapiens

<400> 50 agcccaggcg ttggcagcag ggtagaaca gctgcctgag gtcctccct gaaggacacc	60
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atgtgctttg cttgttgctg ggcggatgat gtttactaac gatgaatttt acatccaaag	180
ggggataggc acttggaacc ccattctcca agggccgggg gggcggtttc ccatgggatg	240
tgaaaggctg gccattatta agtccttgta actcaaatgt caacccacc gaggcacccc	300
cccgTcccc agaatcttgg ctgtttacaa atcacgtgtc catcgagcac gtctgaaacc	360

<210> 51

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<211> 568
 <212> DNA
 <213> Homo sapiens

<400> 51
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 agaaatggga actgacaatg atagtgaaaa ttggaaggaa gtgcataaga tgggtggttga 120
 aagtgcctat gaagtcacat agctaaaagg atataccaac tgggctattg gattaagtgt 180
 ggctgatctt attgaatcca tgttgaaaaa tctatccagg attcatcccg tgtcaacaat 240
 ggtaaagggg atgtatggca ttgagaatga agtcttcctg agccttccat gtatcctcaa 300
 tgcccgggga ttaaccagcg ttatcaacca gaagctaaag gatgatgagg ttgctcagct 360
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 gagctctagg ctgtagaaat ttaaaaacta caatgtgatt aactcgagcc tttagttttc 480
 atccatgtac atggatcaca gtttgctttg atcttcttca atatgtgaat ttgggctcac 540
 agaatcaaag cctatgcttg gtagctct 568

<210> 52
 <211> 377
 <212> DNA
 <213> Homo sapiens

<400> 52
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 atgctcatgt ggtgttgagg aaagcagaca ttgacctcac caagagggcg ggagaactca 180
 ctgaggatga ggtggaacgt gtgatcacca ttatgcagaa tccacgccag tacaagatcc 240
 cagactgggt cttgaacaga cagaaggatg taaaggatgg aaaatacagc caggctcctag 300
 ccaatggtct ggacaacaag ctccgtgaag acctggagcg actgaagaag attcggggcc 360
 atagagggct gcgtcac 377

<210> 53
 <211> 322
 <212> DNA
 <213> Homo sapiens

<400> 53
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 gcatatgctg gccgggtgct ctacatataa attctcattg tatcctccca tctgtccact 120
 gaggaagatt atcaaattga tcttcatcca atggatgcat aaactttcct acttacttgt 180
 agtggcaaag ctggctttca agtacaagtt tgttggctcc attacctatg ctcctattat 240
 ccgcttctgt cccgcaacaa agtagctcac ttaggcgtat gaccacatgc attatgatag 300

tttcccacca ccatattgaa ta

322

<210> 54
 <211> 525
 <212> DNA
 <213> Homo sapiens

<400> 54
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 cctgggtgctg ccacacttca ggctcttctc ctttcacaac cttctgtggc tcacagaacc 120
 cttggagcca atggagactg tctcaagagg gcactgggtg cccgacagcc tggcacaggg 180
 cagtgggaca gggcatggcc aggtggccac tccagacccc tggcttttca ctgctggctg 240
 ccttagaacc tttcttacat tagcagtttg ctttgtatgc actttgtttt tttctttggg 300
 tcttggtttt tttttccact tagaaattgc atttcctgac agaaggactc aggttgtctg 360
 aagtcactgc acagtgcac tcagcccaca tagtgatggg tcccctgttc actctactta 420
 gcatgtccct accgagtctc ttctccactg gatggaggaa aaccaagccg tggcttcccg 480
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<210> 55
 <211> 536
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(536)
 <223> n = any nucleotide

<400> 55
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 tgccagaggt cttgatcctg naaagaataa tntgggtgcca cagacagcag tgggnagnaat 180
 tgatgtttct catgaanatg gnananagat tcagatgagg cagacttggt gncnnggcga 240
 aagnaggcaa atatgaagtg tcctcaaatt ngtaattgct ttttatgaag agagactaac 300
 ttnggcattc tntgntccag aagatgaagc tcaataattg ttcacattng ttcnttttat 360
 atatatttat atatatatat aaanaattng ggtcttagan ttttganttt actangtgtg 420
 acnaaaataa ctacatccta atgaaaatca agtttgatat gtttgttttg aaagtagcgt 480
 tggaagagtt gttgggggnt tttttgcatc catagcactg gttactttga acaaat 536

<210> 56
 <211> 539
 <212> DNA
 <213> Homo sapiens

22335_US_Sequence_Listing_060807.txt

<400> 56
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cagtccttca gcctccaatt ggtgtcagta cttaggaaga ccacagctag atggacaaac 300
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gagccgctgg caggagacag catgtcacc aggactctgc cgggtgcagaa tatgagcaat 420
gccatgttct tgcagaaaac gcttaacctg agtttcatag gaggtaatca ccagacaact 480
gcagaatgta gaacactgag caggacaact gacctgtctc cttcacatag tccatatca 539

<210> 57
<211> 398
<212> DNA
<213> Homo sapiens

<400> 57
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gagtgccttc gagtgcgagg cgaggtggct cctgacgcta agagcttcgt gctgaacctg 120
ggcaaagaca gcaacaacct gtgcctgcac ttcaaccctc gcttcaacgc ccacggcgac 180
gccaacacca tcgtgtgcaa cagcaaggac ggcggggcct gggggaccga gcagcgggag 240
gctgtctttc ccttccagcc tggaagtgtt gcagaggtgt gcatcacctt cgaccaggcc 300
aacctgaccg tcaagctgcc agatggatac gaattcaagt tccccaaccg cctcaacctg 360
gaggccatca actacatggc agctgacggg gacttcaa 398

<210> 58
<211> 489
<212> DNA
<213> Homo sapiens

<400> 58
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accaacctga tccgtaatgg agactggacc atccagatcc tggatgatgct ggaaatgacc 120
ccccagcagg gagacgtcta catctgccaa gtggagcaca ccagcctgga tagttccgtc 180
accgtggagt ggaaggcaca gtctgattct gccagagta agacattgac gggagctggg 240
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cttagaacia gcatttgctg tgttttgtta acacctgggt ccaggacaga ccctcagctt 420
ccaagagga tactgctgcc aagaagttgc tctgaagtca gtttctatcg ttctgctctt 480

tgattcaaa

489

<210> 59
 <211> 461
 <212> DNA
 <213> Homo sapiens

<400> 59
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 ttaaaaaccc ttgaacaaa gtgtgtgcat aaccagtcac gagataaac aacacaatgc 120
 atgttgcctt tttaatgtaa atacccttag gtagcattaa tagtttcaaa atattgtggt 180
 ttagtaaagt tgatacctgg ttataaatat tatgccttta tttttggcta gaagaagaat 240
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 atgtaaaaca atgttaattt actcaagttt tcagtttgta ccgcctggta tgtctgtgta 420
 agaagccaat ttttgtgtat tgttacagtt tcaggttatt t 461

<210> 60
 <211> 521
 <212> DNA
 <213> Homo sapiens

<400> 60
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 tggaggggag gaccaaggag ctgggctaca cggatgaaga gcatctgcag gacctgtccg 120
 gcaggatctc cagagctcgg cacaacgaac tctgaaggca ctggggagcc cagcccggca 180
 gggaagaggc cagcgtgaag gacctgggct cttggccgtg gcatttccgt ggacagcccg 240
 ccgtcagggg ggctggggct ggcacgggtg tcgaggcagg aaggattgtt tctggtgact 300
 gcagccgctg ccgtcgcgac acagggtctg gtggtggtag catttgggtc tgagatcggc 360
 ccagctctga ctgaaggggc ttggcttcca ctgagcatca gcgtggcagt caccaccca 420
 gtgaggacct cgatgtccag ctgctgtcag gtctgatagt cctctgctaa aacaacacga 480
 ttacataaa aaatcttaca catctgccac cggaataacc a 521

<210> 61
 <211> 492
 <212> DNA
 <213> Homo sapiens

<400> 61
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 cctaaaatct acttggtttg aaatcaagtg gttggaacac tgtttgactt ttatttgaag 120
 catgttggtg attgaaaatt tcattgagga agttttcaat cagtgtgatc agtttgattc 180

22335_US_Sequence_Listing_060807.txt

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tgTTTTgtt ttgTTTTggt tttgTTTTgt ttcccaatag aattaagaat tctaattgtg	360
aaaaactgta taaattTTta tgggacaaag cctagaaaag agaaatgtag tttgaatcat	420
aatctaaatc atcgtatgat aggaaggaaa agTTTTggtg ccataatttc tcTTTTcact	480
ggtgTTggac tt	492

<210> 62
 <211> 445
 <212> DNA
 <213> Homo sapiens

<400> 62	
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gcccagaaat aagaccactg ttttgaacta ccacaaaagt ataaatgaat attTTaatgc	120
cacaatcttt cctgTTgcct gtggagtctc tgctgaaatg aatcaggatt cgagctctag	180
gatgagacag aaaatgaaag catgTTgtt gccaggacac tgtgggTTta tattgatgtg	240
taacaagTTg atttgaaca ctggactctc attctgttat tctggcttcg cccctTTTgt	300
tccccctcct tctTTTgtaa aggcaatgag ctagtcccag aaaggatcct tcagttacat	360
acaatttatt taatgaaatg tcatggctct gttcatattt ttgtcttggt cttccaattg	420
gtatatacaa ctttcagagc ctctt	445

<210> 63
 <211> 161
 <212> DNA
 <213> Homo sapiens

<400> 63	
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aaaaacaaaa acctactagt cttgaacaaa ctgtcatacg tatgggacct acacttaatc	120
tatatgcttt acactagctt tctgcattta ataggTTaga a	161

<210> 64
 <211> 133
 <212> DNA
 <213> Homo sapiens

<400> 64	
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caagctgctg gag	133

22335_US_Sequence_Listing_060807.txt

<210> 65
 <211> 524
 <212> DNA
 <213> Homo sapiens

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 tcctgtactg cattgctgcc cttctgcttt atgttggcta cacgagtctg tatctggata 120
 gtcgtaaact tcctatgata gactttgttg ttacacttgt tgccactttt ttgtggttgg 180
 tgagcacttc agcctgggct aaagctctga cagatattaa aatagctact ggtcacaata 240
 ttattgatga acttccgcct tgtaagaaga aagcagtact gtgttacttt ggctctgtga 300
 ccagtatggg atccctaaat gtatctgtga tatttggctt tctaaatatg atactctggg 360
 gaggaaatgc ttggttttgtg tacaaggaga ccagcctaca cagtccatca aatacatctg 420
 cccctcatag ccaaggagggt attccacctc ctaccggaat ataattaaag ggagaaatac 480
 actgtatgaa gtatatgttg atactatgac atgttgccaa cacc 524

<210> 66
 <211> 511
 <212> DNA
 <213> Homo sapiens

<400> 66
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 ttaagtgcag gctgagaccc agcctctttg taagtacagt aaaataatcc accgtttttt 120
 acagacccta gtcaaaggggt taaaaaaatt aagattgctt tccatgtttg aaatttacca 180
 ttgagagtca atgaagttgc tattttgagt ttagcattga tattgtgaaa ataagtgcaa 240
 tttggatttc atgtttctta atattcattc ttgtttcaca aatgaatgat taaggaatta 300
 tgcatacataa aggaacctaa gtgagggtata tgatgagtgt attgtctttg cacacacata 360
 taggtatatt ctgaatacaa gcttattcat tttgcttcct aatctttttg ttgtacaggg 420
 attcaggttt cttattctta caacatgatt gtttatatgt gaagcacatc ttgctgttgc 480
 cttatttttg atgcttttat tcatgacaag a 511

<210> 67
 <211> 371
 <212> DNA
 <213> Homo sapiens

<400> 67
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 aacttcattt tagttgttgg tgaaaaagag aaaatcactg gcactgttaa tatccgcaca 120
 agagacaata aggtccacgg ggaacgcacc atttctgaaa ctatcgagcg gctacagcag 180
 ctcaaagagt tccgcagcaa acaggcagaa gaagaatttt aatgaaaaaa ttaccagat 240

22335_US_Sequence_Listing_060807.txt

tggtccatg gaaaaggagg aacagcgttt ccgtaaaatt gactttgtac tcgaaaacgt	300
caatttatat tgaacttgga ggaggagttt ggcaaagtct gaaataggtc aacctgcagg	360
cgtaactatt t	371

<210> 68
 <211> 532
 <212> DNA
 <213> Homo sapiens

<400> 68	
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caagtctgtg acaccagaac gcattgctga gaactttaag gtctttgact ttgaactgag	120
cagccaggat atgaccacct tactcagcta caacaggaac tggaggggtct gtgccttggt	180
gagctgtacc tcccacaagg attaccctt ccatgaagag ttttgaagct gtggttgacct	240
gctcgctccc aagtgcaccta tacctgtgtt tcttgacctca tttttttcct tgcaaagtga	300
gtatggcctg tgtcactcag cagtgggaca gcaacctgta gagtggccag cgagggcggtg	360
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ctttgccctt ctttctacct tgctggggaa agtacaacct gaataccctt ttctgaccaa	480
agagaagcaa aatctaccag gtcaaaatag tgccactaac gggtgagttt tg	532

<210> 69
 <211> 461
 <212> DNA
 <213> Homo sapiens

<400> 69	
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tggccagtgt gctgacgccg gagataatgg ctcccatcct cgccaacgcg gatgtccagg	120
agcgctgtct tccctacttg ccatctgggg agtcgctgcc gcagaccgcg gatgagatcc	180
agaataccct gacctgccc cagttccagc aggccttggg catgttcagc gcagccttgg	240
cctcggggca gctgggcccc ctcatgtgcc agttcgggtct gcctgcagag gctgtggagg	300
ccgccaacaa gggcgatgtg gaagcgtttg ccaaagccat gcagaacaac gccaaagccc	360
agcagaaaga gggcgacacg aaggacaaga aggacgaaga ggaggacatg agcctggact	420
gagccacgcg ccgtcctccg aggaactggg cgcttgcaat g	461

<210> 70
 <211> 542
 <212> DNA
 <213> Homo sapiens

<400> 70	
cgaggcacgt accacaacaa gtccttcttc accgacgatg acaagcaaga ccacctcagc	60

22335_US_Sequence_Listing_060807.txt

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ccctgtcact caacgtgggc cctagaacaa gaggcttaaa accgggcttt cacccaacct 300
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tttaatatat cctgtctta cccctattca agcaactaga ggccagaaaa tgggcaaatt 420
atcactaaca ggtctttgac tcagggtcca gtagttcatt ctaatgccta gattcttttg 480
tggttgttgc tggcccaatg agtccctagt cacatcccct gccagaggga gttcttcttt 540
tg 542

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<210> 71
<211> 356
<212> DNA
<213> Homo sapiens

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<400> 71
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agagtttgtg tgggcgggcg catgtgcacc acagagtgc ctcgagggga ctttcagtca 120
caggatttca taattgtcat tgtcacactt tcaaattttt gtacatcagt gaattttttt 180
atattaaaag gttgagccaa aaagcccccga gtgtttgtat tttgaagcca agcttcactt 240
ctaaagtgcc tacagagact tgtaaatgaa aatgcagctc tgcacgagtt tgaaaccgtc 300
atacctcctt ctattaggaa tggcatatac tgagggtggc gtaagtctta acttct 356

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<210> 72
<211> 409
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)..(409)
<223> n = any nucleotide

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<400> 72
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tatcagatgt tgccctgtgt tccataaagc aaaatgctga ttttggtaaa aaacatnact 180
gcttctagag ctgggaggat ctgcagactt tcacggattc atggaacaag aaaagaagca 240
taggtacttt taggtgccat taggtattga tcagtgaaat cctaggggtgc tctatgagat 300
tgtactaggc ctatgaagag tggtaagcca aataggtctc catgggagat acattatgta 360

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<210> 73
 <211> 534
 <212> DNA
 <213> Homo sapiens

<400> 73
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 gtttctttac ttatttgtgg ttggaatgag ggacgaccat atttatttca gtcagatcca 180
 tctggagctt actttgcctg gaaagctaca gcaatgggaa agaactatgt gaatgggaag 240
 actttccttg agaaaagata taatgaagat ctggaacttg aagatgccat tcatacagcc 300
 atcttaaccc taaaggaaag ctttgaaggg caaatgacag aggataacat agaagttgga 360
 atctgcaatg aagctggatt taggaggctt actccaactg aagttaagga ttacttggct 420
 gccatagcat aacaatgaag tgactgaaaa atccagaatt tcagataatc tatctactta 480
 aacatgttta aagtatgttt tgttttgcag actttttgca tacttatttc taca 534

<210> 74
 <211> 299
 <212> DNA
 <213> Homo sapiens

<400> 74
 caccaaatta cctaggctga ggtagagag attggccagc aaaaactgtg ggaagatgaa 60
 ctttgtcatt atgatttcat tatcacatga ttatagaagg ctgtcttagt gcaaaaaaca 120
 tacttacatt tcagacatat ccaaagggaa tactcacatt ttgttaagaa gttgaactat 180
 gactggagta aaccatgtat tcccttatct ttactttttt ttctgtgaca tttatgtctc 240
 atgtaatttg cattactctg gtggattgtt ctagtactgt attgggcttc ttcgttaat 299

<210> 75
 <211> 533
 <212> DNA
 <213> Homo sapiens

<400> 75
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 atgggataac tattgtgtaa agaaacagct tcttcactcc tgcactgtga ttgccaccaa 180
 cattctcttg gttgatgaga tcatgcgagc tggaatgtct tctctgaaag gttgaattga 240
 agcttcctct gtatctgaat cttgaagact gcaaagtgat cctgaggatt acagctgtgg 300
 aatttttgtc caagcttcaa ataattttga aagaaatttt cccatatgaa aaaaggagag 360

22335_US_Sequence_Listing_060807.txt

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tgaagtgtat acacataaag caggtctttt atccagtga caggatgttt tgcttttagca	480
gcagtgacat aaaattccat gttagataag catatgttac ttaccttggt att	533

<210> 76
 <211> 424
 <212> DNA
 <213> Homo sapiens

<400> 76	
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tgtggcaaaa catttgcaat gaaacaaagt ctactaggc atgctgttgt acatgatcct	180
gacaagaaga aaatgaagct caaagtcaaa aaatctcgtg aaaaacggga gtttggcctc	240
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aacggagagt cacccaactg tgtggaagac aagatgctct cgacagttgc agtacttacc	360
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ctca	424

<210> 77
 <211> 356
 <212> DNA
 <213> Homo sapiens

<400> 77	
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acgatcacag tggctctccag cactaactat ttcaaaagta ctcttgtcca tctgttctct	300
gttgtgtgat cccaatccag atgatccttt agtgcctgag attgctcgga tctaca	356

<210> 78
 <211> 484
 <212> DNA
 <213> Homo sapiens

<400> 78	
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ccgcaagcag atcgtagctg ggggtgaacta cttcttggac gtggagctgg gccgaaccac	180
gtgtaccaag acccagccca acttggacaa ctgccccctc catgaccagc cacatctgaa	240

22335_US_Sequence_Listing_060807.txt

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 gggaagggtct ccccatgtgc ctgcaccagg agacagacag agaaggcagc aggcggcctt 480
 tgtt 484

<210> 79
 <211> 321
 <212> DNA
 <213> Homo sapiens

<400> 79
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 gagcctgctg agctgaggcc atggcctgcg tggcttgggg aaatgagttg gtggatacct 180
 tctgggcttt tgaacttgcc cctcccccat ttccctctcc cccatgtgtc tgaccctgtc 240
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 ttgcttttga tttctggaag g 321

<210> 80
 <211> 504
 <212> DNA
 <213> Homo sapiens

<400> 80
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 ttactaaata gtcgcacccc agcagcctct ctgcacacc ggggccctgc atgtcagatg 180
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 ttgaccgatg tatcttttcc ttaa 504

<210> 81
 <211> 455
 <212> DNA
 <213> Homo sapiens

<400> 81
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22335_US_Sequence_Listing_060807.txt

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acctgatagc acagcacagc gccatcaaga tgctgcacag ccgctgcaag ctcatcttgg 120
agtacgtcaa ggcctctgaa gcgggagagg tcccctttaa tcatgagatc ctgcgggagg 180
cctatgctct gtgtcactgt ctcccgggtgc tcagcacaga caagttcaag acagattttt 240
atgatcaatg caacgacgtg gggctcatgg cctacctcgg caccatcacc aaaacgtgca 300
acaccatgaa ccagttttgtg aacaagttca atgtcctcta cgaccgacaa ggcacgga 360
ggagaatgcg cgggctcttt ttctgatgag ggtacttgaa gggctgatgg acaggggtca 420
ggcaactatc caaaggggag ggcactacac ttcct 455

```

```

<210> 82
<211> 468
<212> DNA
<213> Homo sapiens

```

```

<400> 82
ttagcgttca tccgtgtaac ccgctcatca ctggatgaag attctcctgt gctagatgtg 60
caaatgcaag ctagtggctt caaaatagag aatcccactt tctatagcag attgtgtaac 120
aattttaatg ctatttcccc aggggaaaat gaaggtagg atttaacagt catttaaaaa 180
aaaaatttgt ttgacggat gattggatta ttcatttaa atgattagaa ggcaagtttc 240
tagctagaaa tatgatttta ttgacaaaa ttgttgaaa ttatgtatgt ttacatatca 300
cctcatggcc tattatatta aatatggct ataaatatat aaaaagaaaa gataaagatg 360
atctactcag aaatttttat ttttctaagg ttctcatagg aaaagtacat ttaatacagc 420
agtgtcatca gaagataact tgagcaccgt catggcttaa tgttttatt 468

```

```

<210> 83
<211> 280
<212> DNA
<213> Homo sapiens

```

```

<400> 83
cagactgctg tggatgtttt tcgaaggata attttggagg cagaaaaaat ggacggggca 60
gcttcacaag gcaagtcttc atgctcgggtg atgtgattct gctgcaaagc ctgaggacac 120
tggaatata ttctacctga agaagcaaac tgcccgttct cttgaagat aaactatgct 180
tcttttttct tctgttaacc tgaaagatat catttgggtc agagctcccc tcccttcaga 240
ttatgttaac tctgagtctg tccaaatgag ttcacttcca 280

```

```

<210> 84
<211> 251
<212> DNA
<213> Homo sapiens

```

```

<400> 84
ggcctattct aggtagtcc aaatagtatt ttgtgtgca aactttaaaa tttatattaa 60

```

22335_US_Sequence_Listing_060807.txt

tttgcaaatg tatgtctctg agtaggactt ggacctttcc tgagatttat tttatccgtg	120
atgtatTTTT ttttaattctt ttgatacaga gaagggtctt ttttttttta agtatttcag	180
tgaaaacttg gtgtaagtct gaacccatct tttgaaatgt attttcttca ttgcaggtcc	240
acctaatacat c	251

<210> 85
 <211> 507
 <212> DNA
 <213> Homo sapiens

<400> 85 atatgcctgt tagaccttag ctgtgggggt cctttactat tgggtgaatc attaggtata	60
aaaaataatc atcaaccagg caaattactt tgcttcctag ctgatgtcat cccacattgg	120
tacaggtggt attcagtact ggggtgggttca gcagggaagc cgggtgggac cagtgtgtct	180
gtcatgaaac cactaactgc attcctgact gaagagccat ctgtcattta ttggggaagg	240
tcttcagttg agctctcagc cttaggaagg aagcacgtgg aggagggacg gaggagggtc	300
ccttgctggg catgcttcgt agagggccag gagcagcagg tcatgtgcac atgccgttgc	360
agcacaagct tatgcttccc gtagccgtgg cttttcattc tgcacagtcc caggtcccag	420
ctccccctct atggtttctg tcataatgtg ctttatctga ttgactccaa acatcccgaa	480
atgtcacctg cagatttctc gtgggaa	507

<210> 86
 <211> 563
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (297)..(298)
 <223> n = any nucleotide

<400> 86 tcaagtccaa gttcaagtcc accatcgcgg cgctggaggc caagattgca cagctggagg	60
agcaggtcga gcaggaggcc agagagaaac aggcggccac caagtcgctg aagcagaaag	120
acaagaagct gaaggaaatc ttgctgcagg tggaggacga gcgcaagatg gccgagcagt	180
acaaggagca ggcagagaaa ggcaatgcca ggggtcaagca gctcaagagg cagctggagg	240
aggcagagga ggagtcccag cgcataacg ccaaccgcag gaagctgcag cgggagnngg	300
atgaggccac ggagagcaac gaggccatgg gccgcgaggt gaacgcactc aagagcaagc	360
tcagagggcc cccccacag gaaacttcgc agtgatgcac caggcgagga aacgagacct	420
ctttcgttcc ttctagaagg tctggaggac gtagagttat tgaaaatgca gatggttctg	480
aggaggaaac ggacactcga gacgcagact tcaatggaac caaggccagt gaataagcaa	540

ctttctacag ttttgcacca cgg 563

<210> 87
 <211> 539
 <212> DNA
 <213> Homo sapiens

<400> 87
 tgagccagga agaacgctcc agcccaggac ttcgaggctg caatgagcta taattgcatc 60
 attgcactcc agcctgggca acagagaccc tgtctcaacc accaccacca ccaccacccc 120
 tactaccctt gtattcaagg taaaaattga agtttgtatg atgtaagaga tgagaaaaac 180
 ccaacaggaa acacagacac atcctccagt tctatcaatg gattgtgcag aactgagtt 240
 tttagaaaaa catatccacg gtaaccggtc cctggcaatt ctgtttacat gaaatgggga 300
 gaaagtcacc gaaatgggtg ccgccggccc ccactcccaa ttcattccct aacctgcaaa 360
 cttttccaac ttctcacgtc aggcctttga gaattctttc cccctctcct ggtttccaca 420
 cctcagacac gcacagttca ccaagtgcct tctgtagtca catgaattga aaaggagacg 480
 ctgctcccac ggaggggagc aggaatgctg cactgtttac accctgactg tgcttaaaa 539

<210> 88
 <211> 568
 <212> DNA
 <213> Homo sapiens

<400> 88
 taccctcccta cttaatgtaa ttcaggactc caaccaagag gatttcttca aatctcagca 60
 aagctacagg actggtactc aagccagcct gtaaacgggtg ctatttctat tccttatggg 120
 atcatttttc caggactctt tgaagaaaag aaaaaacaac taaaaaaatt tttgacactt 180
 tttgtatttt ttcttaaga gctatttgtg gttgttgagg tttgaaaagc tgactgtttt 240
 ttttgcaggg gttcccacca atttggaagg cattgaagct tgcacctttt catgtacagc 300
 attaaaattt tacctctctc tgggattttac cagcttaaga gtccaactca cttccagtgc 360
 ccaaaggggc acccaccaga aattccagta aatcctcatt tgaggaagct ctcccttggt 420
 tactctgtta ccacattggg gaaattttta agtttttcac tttgggagtt tttgtttggt 480
 tcttcttttc ctttatccac ttttcttctt cctggtagac taggtttatt tatctgagca 540
 ataacttcta tgttggtttc agtggctg 568

<210> 89
 <211> 340
 <212> DNA
 <213> Homo sapiens

<400> 89
 gtgccgctct aaattggctc catatcattg agtttagggg tctgggtgttt ggtttcttca 60

22335_US_Sequence_Listing_060807.txt

```

ttctttactg cactcagatt taagccttac aaagggaaac ctctggccgt cacacgtagg 120
acgcatgaag gtcactcgtg tgaggctgac atgctcacac attacaacag tagagagggg 180
aaatcctaag acagaggaac tccagagatg agtgtctgga gcggcttcag ttcagcttta 240
aaggccagga cgcgcgacac gtggctggcg gcctcgttcc agtggcggca cgtccttggc 300
gtctctaata tctgcagctc aagggtggc acttttttaa 340

```

```

<210> 90
<211> 354
<212> DNA
<213> Homo sapiens

```

```

<400> 90
ccctggagcg gcagggcgtg acggccacag ggtctgcccg ctgcacgttc tgccaagggtg 60
gtggtggcgg gcgggtaggg gtgtgggggc cgtcttcctc ctgtctcttt cctttcaccc 120
tagcctgact ggaagcagaa aatgaccaa tcagtatttt ttttaatgaa atattattgc 180
tgagggcgtc ccaggcaagc ctggctgtag tagcgagtga tctggcgggg ggcgtctcag 240
caccctcccc aggggggtgca tctcagcccc ctctttccgt ccttcccgtc cagccccagc 300
cctgggcctg ggctgccgac acctgggcca gagcccctgc tgtgattggt gctc 354

```

```

<210> 91
<211> 518
<212> DNA
<213> Homo sapiens

```

```

<400> 91
gaaaatgctt tcctgaacct gggttcagtgc attcagaaca agcccctgta ttttgctgat 60
cggctgtatg actccatgaa gggcaagggg acgcgagata aggtcctgat cagaatcatg 120
gtctcccgca gtgaagtgga catgttgaaa attaggtctg aattcaagag aaagtacggc 180
aagtcctgtg actattatat ccagcaagac actaagggcg actaccagaa agcgtgctg 240
tacctgtgtg gtggagatga ctgaagcccc acacggcctg agcgtccaga aatgggtgctc 300
accatgcttc cagctaacag gtctagaaaa ccagcttgcg aataacagtc cccgtggcca 360
tcctgtgag ggtgacgtta gcattacccc caacctcatt ttagttgcct aagcattgcc 420
tggccttcct gtctagtctc tcctgtaagc caaagaaatg aacattccaa ggagttggaa 480
gtgaagtcta tgatgtgaaa cactttgcct cctgtgta 518

```

```

<210> 92
<211> 522
<212> DNA
<213> Homo sapiens

```

```

<400> 92
tcagccttgc cagcagcaat catttgggga agaactctaca gttgctgatg gacagagtgg 60

```

22335_US_Sequence_Listing_060807.txt

```

atgaaatgag ccaagatata gttaaataca acacatacat gaggaatact agtaaacaac 120
agcagcagaa acatcagtat cagcagcgtc gccagcagga gaatatgcag cgccagagcc 180
gaggagaacc cccgctccct gaggaggacc tgtccaaact cttcaaacca ccacagccgc 240
ctgccaggat ggactcgctg ctcatcgcag gccagataaa cacttactgc cagaacatca 300
aggagttcac tgcccaaaac ttaggcaagc tcttcattggc ccaggctctt caagaataca 360
acaactaaga aaaggaagtt tccagaaaag aagttaacat gaactcttga agtcacacca 420
gggcaactct tggaagaaat atatttgcag attgaaaagc acagaggatt tcttttagtgt 480
cattgccgat tttggctata acagtgtctt tctagccata at 522

```

```

<210> 93
<211> 419
<212> DNA
<213> Homo sapiens

```

```

<400> 93
gagagcacca cagtgggtcac cacacagtct gctgaggttg gagctgctga gacgacgctc 60
acagagctga gacgtacagt ccagtccttg gagatcgacc tggactccat gagaaatctg 120
aaggccagct tggagaacag cctgagggag gtggaggccc gctacgccct acagatggag 180
cagctcaacg ggatcctgct gcaccttgag tcagagctgg cacagacccg ggcagagggg 240
cagcgccagg cccaggagta tgaggccctg ctgaacatca aggtcaagct ggaggctgag 300
atcgccacct accgccgcct gctggaagat ggcgaggact ttaatcttgg tgatgccttg 360
gacagcagca actccatgca aaccatccaa aagaccacca cccgccggat agtggatgg 419

```

```

<210> 94
<211> 487
<212> DNA
<213> Homo sapiens

```

```

<400> 94
gctacagccg ctaaggaggg gatcggggtt ggccccccagc ccccgtcacg ccagtccttc 60
ttcctctgcc gggagggtgt tttcaactcc aaaccccaga gaggggttgt acattgggtc 120
cagctttgct tcagtgtgtg gaaatgtctc gtgggggtggc atcggggctg cgggggtggg 180
acccaaggc tttctggggc agacccttgt cctctgggat gatgggcact gctatccaca 240
gtctctgcca gttgggtttta tttggaggtt tgtgggcttt tttaaaaaaa aaaaagtcct 300
caaatcagga agaaacatca aagactatgt cctagtggag ggagtaatcc taacacccag 360
gctggccgcc agctggcacc tgcctctatc ccagactgcc ctcgtcccag ctctctgtcc 420
aactgttgat tatgtgattt ttctgatacg tccattctca aatgccagtg tgttcacatc 480
ttcgctc 487

```

22335_US_Sequence_Listing_060807.txt

<210> 95
<211> 289
<212> DNA
<213> Homo sapiens

<400> 95
tgttcatgaa gactccctta cagttgtttt tgaaaataat tggcaaccag aacgccaggt 60
tccattttaat gaagtttagat taccaccacc acctgatata aaaaaagaaa ttagtgaagg 120
agatgaagta gaggtatatt caagagcaaa tgaccaagag ccatgtgggt ggtgggtggc 180
taaagttcgg atgatgaaag gagaatttta tgtcattgaa tatgctgctt gtgacgctac 240
ttacaatgaa atagtcacat ttgaacgact tcggcctgtc aatcaaaat 289

<210> 96
<211> 466
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (321)..(322)
<223> n = any nucleotide

<400> 96
aattactgac tgtcctagta cattggaagc ttttgtttat aggaacttgt agggctcatt 60
ttggtttcat tgaaacagta tctaattata aattagctgt agatatcagg tgcttctgat 120
gaagtgaaaa tgtatatctg actagtggga aacttcatgg gtttcctcat ctgtcatgtc 180
gatgattata tatggataca ttacaaaaa taataaaaaa agcgggaatt ttcccttcgc 240
ttgaatatta tccctgtata ttgcatgaat gagagatttc ccatatttcc atcagagtaa 300
taaataact tgctttaatt nnttaagcat aagtaaacat gatataaaaa tatatgctga 360
attacttggtg aagaatgcat tttaaagctat tttaaagtgt tttttatttg taagacatta 420
cttattaaga aattgggttat tatgcttact gttctaattc ggtggt 466

<210> 97
<211> 393
<212> DNA
<213> Homo sapiens

<400> 97
tcagggccaa gttcgtgggg acaccagaag tcaaccagac caccttatac cagcgttatg 60
agatcaagat gaccaagatg tataaagggt tccaagcctt aggggatgcc gctgacatcc 120
ggttcgtcta ccccccgcc atggagagtgt tctgcggata cttccacagg tcccacaacc 180
gcagcgagga gtttctcatt gctggaaaac tgcaggatgg actcttgacac atcactacct 240
gcagtttcgt ggctccctgg aacagcctga gcttagctca gcgccggggc ttcaccaaga 300

22335_US_Sequence_Listing_060807.txt

cctacactgt tggctgtgag gaatgcacag tgtttccctg tttatccatc ccctgcaaac 360
 tgcagagtgg cactcattgc ttgtggacgg acc 393

<210> 98
 <211> 239
 <212> DNA
 <213> Homo sapiens

<400> 98
 cgatcatagt cttaggagtt catttaaacc ataggaactt ttcacttatc tcatgttagc 60
 tgtaccagtc agtgattaag tagaactaca agttgtatag gctttattgt ttattgctgg 120
 tttatgacct taataaagtg taattatgta ttaccagcag ggtgttttta actgtgacta 180
 ttgtataaaa acaaattcttg atatccagaa gcacatgaag tttgcaactt tccaccctg 239

<210> 99
 <211> 337
 <212> DNA
 <213> Homo sapiens

<400> 99
 ttttaagcacc aaattttgtt gttttttttt tctcccctcc ccacagatcc catctcaaat 60
 cattctgtta accaccattc caacaggctg aggagagctt aaacaccttc ttcctctggc 120
 cttgtttctc ttttattttt tattttttcg catcagtatt aatgtttttg catactttgc 180
 atctttattc aaaagtgtaa actttctttg tcaatctatg gacatgcca tatatgaagg 240
 agatgggtgg gtcaaaaagg gatatacaat gaagtgatag gggtcacaat ggggaaattg 300
 aagtgggtgca taacattgcc aaaatagtgt gccacta 337

<210> 100
 <211> 506
 <212> DNA
 <213> Homo sapiens

<400> 100
 gaggttgcac gagccagaaa tcttctgaaa acaaacatgt tgttgcagct tgatgggttca 60
 actccaattt gtgaagatat tggtaggcaa atgttatgct ataatagaag gattccccatc 120
 cctgagcttg aagcaagaat tgatgctgtg aatgctgaga caattcgaga agtatgtacc 180
 aaatacattt ataataggag tccagctatt gctgctgttg gtcccattaa gcaactacca 240
 gatttttaac agatacgag taacatgtgt tggcttcgtg attaaaatgc tcctaataca 300
 gattgtttga acacatgtat ttataaaaca gagctagaga aaaataaaaa tgaacatgta 360
 tatacatttg gaaatttgaa ttaaatactg tatcatactt tcaaaggata aaaagactac 420
 ccctctgaag gttgttttgt attaatggc agtctttgtt ctctgagaaa ttatgttgga 480
 agcagcatac tttcaaatta ttacca 506

22335_US_Sequence_Listing_060807.txt

<210> 101
 <211> 407
 <212> DNA
 <213> Homo sapiens

<400> 101
 atcagtgtgc tgctagaggg ttctttttca cttgacatgc ttattagaaa gctgacccaa 60
 caagagctct ctgcctccgg tcactcttgc tgtggtgcta cgtggaagtg aatggagact 120
 gatctcaaat ctgaactgca gctttccctc ctgtgagttg gggaaatgat agtcaactca 180
 gccttcagat tgtatgagaa aaatgaagag aagccaccaa atattttggt actcttcatt 240
 catttatctc taaaaccagg agttgaattt tcctcatctt gaaagactct tggggctctgt 300
 ttctggtatt ttacaaaatt gctaagtgga atgcatgaat tgcattatgt tctctggtaa 360
 cacgtagagt tcagaccctt ctgaactctg ttgataatac cacacca 407

<210> 102
 <211> 507
 <212> DNA
 <213> Homo sapiens

<400> 102
 gtcactgttc cattgcagac cagacttgct ggcctgacca caagggagtg gctgggaact 60
 cacagccagc atagggacat cccctgcag ccttctgacc tgcaatcaag gctggggagg 120
 ggtttgcagg caggaatatg ctgacctttc accctgccat cccatcccaa cccagctca 180
 ctagccttca tatatgcctt atacttgag tcacaggggc caaaggcctg agaccccacc 240
 ctgcccccaa actggctaag acagctttca gttcctgact cccaacttg gtctctgccc 300
 tgaagcaggg cactgaactc tgggctgctt ctctgtgtgt aaaatgggca catcttccta 360
 atctgttaat ggtcagtggg gtccccaagg atagtgtgg cttccatgga aaccctcact 420
 cctggagatt ccattccatt ttcaagtgtg cagccacagc aaggagcccg aactgattt 480
 gatcgattct gtgacacaaa ccccacc 507

<210> 103
 <211> 310
 <212> DNA
 <213> Homo sapiens

<400> 103
 cattatttga acacttgggt agaactcttg ctttgtatta aacctctttg tctacacatg 60
 taaaacttac cttttgttat tgagcaggcc tatctctttc agatagtttt atgattcaca 120
 caggtttgag gatgctgggg agagggggag ggggctgtgg tgggtgttctg ttggttacaa 180
 gaaagttata ccatttaaag ctggcaccag agacccgata gggacttatt aactatattg 240
 aacatttttt cctttgcctt tgaccctatg tatagttacg atgccagatt agatttatag 300

cagcctcaag

310

<210> 104
 <211> 566
 <212> DNA
 <213> Homo sapiens

<400> 104
 tccactacaa gtagcagccc cagtgactgt atttactgag agcaccacct ctgatgcttc 60
 ggaacatgcc tctcaatctg ttccaatggt gactacatcc actggcactt tatctacaac 120
 aaatgaaaca gcaacagggtg atgatggaga tgaagtatth gtggaggcag aatctgaagg 180
 tattagttca gaagcaggcc tagaaattga tagccagcag gaagaagagc cggttcaagc 240
 atctgatgag tcagatctcc cctccaccag ccaggatcct ccttctagct catctgtaga 300
 tactagtagt agtcaaccaa agcctttcag acgagtaaga cttcagacaa cattgagaca 360
 aggtgtccgt ggtcgtcagt ttaacagaca gagagggtgtg agccatgcaa tgggagggag 420
 aggaggaata aacagaggaa atattaatta aatgggtctgt aaacaataac aactgtgaat 480
 aagattatca aatctgtttt agtgtaatga ttgtcaagtt taaaaacatt tttatatata 540
 aactggtata ctcatgtcaa tattct 566

<210> 105
 <211> 534
 <212> DNA
 <213> Homo sapiens

<400> 105
 tgctgtgtga accgtcgtgt gagtgtggta tgcctgatca cagatggatt ttgttataag 60
 catcaatgtg acacttgcag gacactacaa cgtgggacat tgtttgtttc ttccatattt 120
 ggaagataaa tttatgtgta gacttttttg taagatacgg ttaataacta aaatttattg 180
 aaatgggtctt gcaatgactc gtattcagat gcctaaagaa agcattgctg ctacaaatat 240
 ttctattttt agaaagggtt tttatggacc aatgccccag ttgtcagtca gagccgttgg 300
 tgtttttcat tgtttaaaat gtcacctgta aaatgggcat tatttatgtt ttttttttg 360
 cattcctgat aattgtatgt attgtataaa gaacgtctgt acattgggtt ataacactag 420
 tatattttaa cttacaggct tatttgtaat gtaaaccacc attttaatgt actgtaatta 480
 acatgggttat aatacgtaca atccttcct catcccatca cacaactttt ttg 534

<210> 106
 <211> 443
 <212> DNA
 <213> Homo sapiens

<400> 106
 aataatgttg cacttgttta ctaaagatat aagttgttcc atgggtgtac acgtagacag 60

22335_US_Sequence_Listing_060807.txt

```

acacacatac acccaaatta ttgcattaag aatcctggag cagaccatag ctgaagctgt 120
tattttcagt caggaagact acctgtcatg aaggtataaa ataatttaga agtgaatgtt 180
tttctgtacc atctatgtgc aattatactc taaattccac tacactacat taaagtaaata 240
ggacattcca gaatatagat gtgattatag tcttaacta attattatta aaccaatgat 300
tgctgaaaat cagtgatgca tttgttatag agtataactc atcgtttaca gtatgtttta 360
gttggcagta tcatacctag atgggtgaata acatattccc agtaaattta tatagcagtg 420
aagaattaca tgccttctgg tgg 443

```

```

<210> 107
<211> 333
<212> DNA
<213> Homo sapiens

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```

<400> 107
ataattcacc ataaacagct atctgtctga attacttcag gccttctcca taatatctgt 60
tagaaagaaa ttgccagtga gcaagtgaga atttttattt ctcaatacct gcttcacttg 120
ataatcatat tataatTTTT tatcatgatt attgactata tttttggagt cccattgttt 180
cagtgggcat taacagaatg ctttaaaaac ttctaagaca agaatctata gcattagtat 240
acactggcac ataatTTTTT aaaaagTTTT aagaaaagat tcatttggaa ttttattcac 300
agtataaaat ttcctcacct gaagtaactt tgt 333

```

```

<210> 108
<211> 555
<212> DNA
<213> Homo sapiens

```

```

<400> 108
gaaacttcat cgtagtctct taatTTTTta acactaaatt caagtcattt gttttaagtc 60
tctaaaaaag aagattgcag tcatccattc atatgcatgg ggtctgatcg caaatacact 120
aaatgtggag tgtaggaacc aaaatgaaac ctgctgtatg gaaactactt tcacttatgg 180
ttcattgggt tttgtaccaa tattttttat gcacttcagt gcaagtcttg tcagttaacc 240
ttactttatg agtaagctaa ataaccctaa ttacatttct ttaaacctgt tttactacta 300
tggcactttg ataaaatggg caggaaccaa ctttactggc aaaaggggtcc atgtaccacc 360
atgtgctgga gcatctgttc tacatgtgga tatctatgaa tggtaatgtt ttccttcatg 420
taagtgccta ttcagagttt cagaatttta aatgccaata tattttcatg gtcatttgca 480
tgtagtaagc cagaaaatat tcaaagagat tttgaaaacc aattgtatTT aaccagcctc 540
aaattgtgca accat 555

```

```

<210> 109
<211> 520

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22335_US_Sequence_Listing_060807.txt

<212> DNA
 <213> Homo sapiens

<400> 109
 gaatgccagt ggggatgcgg ggggatgagg gtaggaggga cttatagaag gggatttgtg 60
 gctgtggggg agaaggttct acagcataag ccttatcctg ccagccaagg ggatttattc 120
 taagagaagt gcatgtgaag aatgggtgcc actgttatta gattgacaag atgttaattt 180
 ctctgtaggt tgtaacttta aaaataaatg aaattattta agggttatgc tgcactagta 240
 ttccttagag gaaacagttc tttaaagtta ggaaagggag taggcaggca tgtgttggca 300
 aaggctgtta atagtagtta agtgtaaga ctgcttttct ttaacgtttt catggtaatg 360
 catattttaga gcactgtatt tttgtcttgt taagaaaatt tagcatttct aaaagaaaaa 420
 agcaaccctc tttcaaactg ttaattctgt cacagcctgt atattttagt catttgtaaa 480
 tctcttcata caatagtgac ttcttttttg actgatacag 520

<210> 110
 <211> 310
 <212> DNA
 <213> Homo sapiens

<400> 110
 ccgtcgccat ggtgaagctg agcaaagagg ccaagcagag actacagcag ctcttcaagg 60
 ggagccagtt tgccattcgc tggggcttta tccctcttgt gatttacctg ggatttaaga 120
 ggggtgcaga tcccggaatg cctgaaccaa ctgttttgag cctacttttg ggataaagga 180
 ttatttggtc ttctggattt ggaggcaatc agcggacagc atggaagatg tgtgctctgg 240
 ctcggataag agatgggaca tcattcagtc actagttgga tggcacaagg ctcttcacag 300
 acgcatctgt 310

<210> 111
 <211> 545
 <212> DNA
 <213> Homo sapiens

<400> 111
 gttttaactc actctcattt gtaagcagtc cacatagtag acaatggggt ttccaagctg 60
 ggcaagggtac atttaatcag taaatcagtt tcacatcatg tattgtgatg tttcaatgtg 120
 agacacaaaa acaatggctt gaaacttgtg tatcatatgt gattttgaaa tgaacacctt 180
 gaatagcact aatttttatt tgtgggtattt ttctataaca aaacaagtag ctctaggaaa 240
 agaggtttta ttttgtaaac gatcatttgt gacctcagac actctctggc taatatttta 300
 ataagctcac agcagataat tctgagatca tgggtgaggg gtggtgcatg ttgagattta 360
 aattggcata aagctgcata ctttttgtct agctgtttga tttcattttt taatatagta 420
 tgccaatttt gtgactgtta ccatgtgaaa gtcctgttga aatgaacaat tgtctgcccc 480

22335_US_Sequence_Listing_060807.txt

acaatcaaga atgtatgtgt aaagtgtgaa taaatctcat atcaaatgtc aaactttttac 540
atgtg 545

<210> 112
<211> 463
<212> DNA
<213> Homo sapiens

<400> 112
aggcaacttc tcataaaatt cccatgggtc ttctcctttg gctatttttc aaaacaaggc 60
ccaacacaaa aacagattga tgctgcctca ttcacgctga cattctttgg tcaaggatac 120
agccaaggca ctggtacaga taagaacaaa ccaaatatca aaatttgtac tcagggtgaaa 180
ggaccagagg ctggctatgt ggctaccccc atagctatgg ttcaggcagc catgactctt 240
ctaagtgatg cttctcatct gcctaaggcg ggcgggggtct tcacacctgg agcagctttt 300
tccaaaacaa agttgattga cagactcaac aaacacggta ttgagtttag tgttattagc 360
agctctgaag tctaaacact ggaagaatta actgaagtca taacgtgcgt gaattaacag 420
cttctctatt tgatatttga aattcttctg taagcctgtc tga 463

<210> 113
<211> 474
<212> DNA
<213> Homo sapiens

<400> 113
gaggggaaggt gattggtagt gagttaaag aaaaagagag gaaaagagag tagttttgtc 60
ttcaagtaaa atgtctgggt gtgccagaca tttcacaagt gtgaaaggag ataggagaag 120
ctcaacttga gggcgtgtag taagttgtag aaggctcgag gggacgtgga cttatttgcc 180
ttggtttgca atacctgcaa ataatgagtt tgaaaagaaa caatgaaatg tgtaaaaat 240
ttgaccatat tagataaatt ttgggtggatt tagtcataag atggaaaaag actggtgaat 300
cttttattac aaaatgtttc tgtaaaaatg ggatcatcat ctttgaaagg ggggaggagg 360
agtaaaagcc cgattataat ggtgatcaat tcaagtcagt gttgactatt ctgtgaaata 420
tatttgcca gtggaaatga taatcagaaa agactgtaaa tagatccatc caaa 474

<210> 114
<211> 378
<212> DNA
<213> Homo sapiens

<400> 114
agaacatggt aagcctggta ttttttaatc aaacaaaata tttatgaaat gggttttctc 60
ttaattctgg attcatcatg gctttctaata accaattgta atatttacia tattcaccaa 120
aacttagaat ttgcaaata caggaattct gccagtgttt ctttgctaag ccttgcatgc 180

22335_US_Sequence_Listing_060807.txt

aaaatttgaa attttaacat tggcacccaa aacctacatg gaatgtatgt ctggagtatt 240
 tcaaacttta cattgaaaca taatttcctt ggaaaacaaa ccataagcct gaggagggtt 300
 ttatcaactg gaatgcttta tattagtttg tttttcactg tacattcctc attttacatt 360
 catttaacct gccgatta 378

<210> 115
 <211> 497
 <212> DNA
 <213> Homo sapiens

<400> 115
 ggacgcacag catgagtctg gacggagtag ctccaagagc tctcactgtg acagcccacc 60
 tcgctcgcag acaccacaag ataccaacag ggcttctgaa acagataccc atagcattgg 120
 agagaaaaac agctcacagt ctgaggaaga tgatattgaa agaaggaaag aagttgaaag 180
 catcttgaag aaaaactcag attggatatg ggattgggtca agtcggccgg aaaatattcc 240
 cccaaggag ttcctcttta aacacccgaa gcgcacggcc accctcagca tgaggaacac 300
 gagcgtcatg aagaaagggg gcatattctc tgcagaattt ctgaaagttt tccttccatc 360
 tctgctgctc tctcatttgc tggccatcgg attggggatc tatattggaa ggcgtctgac 420
 aacctccacc agcacctttt gatgaagaac tggagtctga cttggttcgt tagtggatta 480
 cttctgagct tgcaaca 497

<210> 116
 <211> 488
 <212> DNA
 <213> Homo sapiens

<400> 116
 aaagggcatt tttcacatat aagtgggcta accaatatatt tcaaaagaac ttcattcattg 60
 tacaactaac aacagtaact agcccttaat tatggtgaca gttccttatt ggtgtgtgtg 120
 agattactct agcaactatt acagtataac acagatgatc ttctccacac accccatcac 180
 ccagataatt tacagttctg ttaacagtga gggttgataaa gtattactga taaaaaatta 240
 tctaaggaaa aaaacagaaa attatttggg gtggccatct tacctgctta tgtctcctac 300
 acaaagctaa atattctagc agtgatgtaa tgaaaaatta catcttactg ttgatatatg 360
 tatgctctgg tacacagatg tcattttggt gtcacagcac tacagtgaaa tacacaaaaa 420
 atgaaattca tataatgact taaatgtatt atatgttaga attgacaaca taaactactt 480
 ttgctttg 488

<210> 117
 <211> 555
 <212> DNA

22335_US_Sequence_Listing_060807.txt

<213> Homo sapiens

<400> 117

tgtcagcagc acgacagcgg ctacaggaag atgagatgcg ccgggctgct gctgaggaga	60
ggcggaggga aaatgccgag gagttagcag ccagacaaag agttagagaa aagatcgaga	120
gggacaaagc agagagagcc aagaagtatg gtggcagtgt gggctctcag ccacccccag	180
tggcaccaga gccaggctct gttccctctt ctcccagcca ggagcctccc accaagcggg	240
agtatgacca gtgtcgcata caggtcaggc tgccagatgg gacctcactg acccagacgt	300
tccggggccc ggaacagctg gcagctgtga ggctctatgt ggagctccac cgtggggagg	360
aactaggtgg gggccaggac cctgtgcaat tgctcagtgg cttccccaga cgggccttct	420
cagaagctga catggagcgg cctctgcagg agctgggact cgtgccttct gctgttctca	480
ttgtggccaa gaaatgtccc agctgagggc ctttgtccca ttgtccctct gtgaccctt	540
catctttgat aaagc	555

<210> 118

<211> 391

<212> DNA

<213> Homo sapiens

<400> 118

caacttcccc cagactttag atctgtattg gtattaccta ctggacatct ctatggacag	60
ttccgtatag actcaactca tctgccaac caagtatgtt cctcctgaat tcctctcctg	120
gttacttcat cacaatctac ataggctcac cagctagaaa catttatgag cttacattcc	180
ttcttcccat atcttatcag catatcatat ccatttctact ccaacactct gtcttgaatt	240
tggccctccc tctcccctct ctactttaat tcattggagc atgggatttg gagttagggtg	300
gttttgggtt tgaattccag ctctactatt tttggttgtg tgatagagtt atttaacctc	360
tctgagcctc agttccctcg tatgtaaaat g	391

<210> 119

<211> 532

<212> DNA

<213> Homo sapiens

<400> 119

cctctgccta aagtacgtgc ccaggagagaa acagaagtat taaaagttat tcgaacagga	60
aagagaaaga agaaggcatg gaagagaatg gttactaaag tgtgctttgt tggagatggc	120
tttacaagaa aaccacctaa atatgaaaga ttcacagggc caatgggctt gcgtttcaag	180
aaagcccatg taacacatcc tgaactgaaa gccacctttt gcctaccaat acttggtgta	240
aagaagaatc cctcatcccc actgtataca actttgggtg ttattaccaa aggtactgtc	300
attgaagtaa atgtgagcga attgggcctt gtgacacaag gaggcaaagt tatttgggga	360

22335_US_Sequence_Listing_060807.txt

aaatatgccc aggttaccaa caatcctgaa aatgatggat gtataaatgc agtcttactg 420
gtttgacagc aatttcatat ataattattg aggactacac accaattgaa gaaactgcca 480
ttactgtgat gtttctgaat actaccaaac agccatacat gtctgcaatg aa 532

<210> 120
<211> 416
<212> DNA
<213> Homo sapiens

<400> 120
gtgtccaact gaaattatcg cttttggcga cagacttgaa gaattcagat ctataaatac 60
tgaagtggta gcatgctctg ttgattcaca gtttaccat ttggcctgga ttaatacccc 120
tcgaagacaa ggaggacttg ggccaataag gattccactt ctttcagatt tgacccatca 180
gatctcaaag gactatgggtg tatacctaga ggactcaggc cacactctta gaggtctctt 240
cattattgat gacaaaggaa tcctaagaca aattactctg aatgatcttc ctgtgggtag 300
atcagtggat gagacactac gtttggttca agcattccag tacactgaca aacacggaga 360
agtctgccct gctggctgga aacctggtag tgaaacaata atcccagatc cagctg 416

<210> 121
<211> 423
<212> DNA
<213> Homo sapiens

<400> 121
aaactgtagt ttgcctccaa gacaccattg tctcccttta atcttctctt ttgtatacat 60
ttgttaccca tgggtgttctt tgttcctttt cataagctaa taccactgta gggattttgt 120
tttgaacgca tattgacagc acgctttact tagtagccgg ttcccatttg ccatacaatg 180
taggttctgc ttaatgtaac ttcttttttg ctttaagcatt tgcatgacta ttagtgcttc 240
aaagtcaatt tttaaaaatg cacaagttat aaatacagaa gaaagagcaa cccaccaaac 300
ctaacaagga cccccgaaca ctttcatact aagactgtaa gtagatctca gttctgcgtt 360
tattgtaagt tgataaaaac atctggaaga aatgactaa aactgtttgc atctttgtat 420
gta 423

<210> 122
<211> 533
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (231)..(231)
<223> n = any nucleotide

<400> 122

22335_US_Sequence_Listing_060807.txt

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taccttttac atgtacttct ctcttggatc aaatatgtct ttaactgtac atctcagtgg      60
ctggaggcca tgccttttaa gcatgtgtaa aattttttaa gaaatgaaca tacacatagt      120
tatttttagta atatttcctg aaagaaaaac caaattctgc tataagtctt gatcttcaat      180
gaacttttaa ataatgcatt tagctggaaa acaagacttt cccagcttgt nttacctaga      240
agcgtgaatg tataggatac ctgactacta agactatatt ctgagccctg ccctgtcttt      300
tatttgcggg tctaattctaa tattagaata tattaaccgc ttaaggcatt gaagccatat      360
gggatgggga atgcatttct tcagtgtttc tccgagagac tttccatttc cttggagtta      420
tggcggcaag taagtatcat agtattaaga aatttgccta aatctgagtt gtgcctttct      480
ttactcaciaa ggcattgggt ttgtcctggg gatcagtttg taagccttct tcc          533

```

```

<210> 123
<211> 527
<212> DNA
<213> Homo sapiens

```

```

<400> 123
acctgctctc cacaataaat cacaacact aaaataaaat tacttccata taaatattat      60
tttctctttt ggtgtgggag atcaaagggt taaagtctaa cttctaagat atatttgcag      120
aaagaagcaa catgacaata gagagagtta tgctacaatt atttcttggt ttccacttgc      180
aatggttaat taagtccaaa aacagctgtc agaacctcga gagcagaaca tgagaaactc      240
agagctctgg accgaaagca gaaagtttgc cgggaaaaaa aaagacaaca ttattaccat      300
cgattcagtg cctggataaa gaggaaagct tacttgttta atggcagcca catgcacgaa      360
gatgctaaga agaaaaagaa ttccaaatcc tcaacttttg aggtttcggc tctccaattt      420
aactcttttg caacaggaaa caggttttgc aagttcaagg ttcactcctt atatgtgatt      480
ataggaattg tttgtggaaa tggattaaca taccctgcta tgcctaa          527

```

```

<210> 124
<211> 495
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (287)..(287)
<223> n = any nucleotide

```

```

<400> 124
tgaggaaaac gccagcgtg tcgctcactt ccgtgcaccc ggatttaatg aagattctcg      60
gtgacatcaa cagtgacttt accagagtgg atgaagatga ggagatcatt gtgaaggcca      120
tgagtgatta ctgggttggt ggaaagaagt ctgatcggcg ggagcctcta tgttattttg      180
aatcaaaaaa atgcaaacct gattgaagta aatgaagagg tcaagaaact ttgtgcaacg      240

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22335_US_Sequence_Listing_060807.txt

cagttcaaca acatcttctt cttggattga cggatgacgg ctcaccngag agcatatcta	300
aaaaacactc tgcaaacatt tggtcacatg caagtttagtg gtcatatgac ggactgcatt	360
caggacaagg gtaaagcaat acttgctttg aagaatcaca ttctgactcg gtctgctgat	420
ctgagggtttt tagatttttaa atatttatgt ggaattaatt aaaggtagtt ggctatatcg	480
ctatcatttc attct	495

<210> 125
 <211> 386
 <212> DNA
 <213> Homo sapiens

<400> 125	
tgcctcttag gggccagagc gggcaggagg ttggataaca aaaatagagc atcagcaacc	60
ctttccaggt agaaattcca gcgggagttc aggttcccaa gcaatttcac gtacatggct	120
ggtaagtgac tgatctttcc ccccgcttgg tagcctcaca gatgagtctt ggatgcattc	180
acagtcattt ctggtctgtg caccaaagga tgcattcagt gacctatgaa aaaccctact	240
gaaggggtcca gagaccctgg tgctcacctt agcctttgtc tttgagcaaa taacttacct	300
tcttccttct tatgcctggg ttttctcaca cttaaactctg tactactggt tgccaatgtc	360
tgatgtgtgt atccctgggt cacaag	386

<210> 126
 <211> 543
 <212> DNA
 <213> Homo sapiens

<400> 126	
acttctcacc tcagccctaa agagggagcc tgtgggttct cagagagata tcacaatttg	60
agtcccaaag aagaggccag ataccacccc accttcccc aaatcttaag cacctgcgcc	120
agtacagtca agaagaggaa agtgtgtgaa gaccaggtc tggctctgcc acttgccctgg	180
ccatgtcacc ttgaagctgt gacctgactc cctatatattgt ttcctcagtt gtagaccaa	240
ggcaatgggtg tctgccctcc taccttagaa gacaaatgca agggcatttc accacagaga	300
ggacctttgt gctcactttg gcccaggagg cagtgatgct catggttgca tgactttatg	360
agtcgctggg ccagggtgag gacctgggcc tcctgactcc tggcccagag ttcttgtcca	420
tcagttcata ctgcaatttt atgtgaaagc attatgactg tcctacccat gggagagtaa	480
atgtagattg aatgctagga gtcttaaagc tggagagtat agattttgag gtccccattt	540
ggg	543

<210> 127
 <211> 479
 <212> DNA

<213> Homo sapiens

<400> 127

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aattgcctcc aatcaaagtg acccagaaga agcagtataa ggagacaatg atgggacaga      60
cttctcgggc ttcccgttgg gctgaccctg accactttgc ccagcgacag agctgcatga     120
atacgtttgc cagctggttt ggctacatgc cgctgatcca ctctcagatg aggctcgacc     180
ccgtcctctt taaagaccag gtctctattt tgaggaagaa ataccgagac attgagcgac     240
tttgaggaat ccggctgagt gggggagggg aagcaagaag ggatgggggt caagctgctc     300
tctcttccca gtgcagatcc actcatcagc agagccagat tgtgccaaact atccaaaaac     360
ttagatgagc agaatgacaa aaaaaaaaaa ggccaatgag aactcaactc ctggctcctg     420
ggactgcacc agactgctcc aaactcacct cactggcttc tgtgtcccaa gactagggtt     479

```

<210> 128

<211> 555

<212> DNA

<213> Homo sapiens

<400> 128

```

cacacattgc agactcttaa cgcaggaagg acttcaaact tctgctgaga ccttgggggtc      60
aaggaacatt tcattggttt tttttgtcca ccccatctc ccttgctcat ttggatgcgt     120
caccttaatt ctctgctgc caccgtcttt gattcaccgg gatgtacagt ttacagttga     180
agagcaaaca gaaaggtttt ctcttggtgg gatatgcaga acttgggatg tgtgtatata     240
taaatatata atatataata atatataata tactgactta aaaaatcaaa tcccccgaca     300
tacgtttttt ttaatctgtg ccaaaaatgt gttttcagag gaaatcttat tttcatattc     360
agactttgta ttgcccactc atttgtataa gtgcgcttcg gtacagcacg ggtcctgctc     420
ccgcgatgtg gaagtgtcac acggcacctg taaaaaaga ctggctaacc cctcttccta     480
ttaccttgat ctcttcccc cacttcctaa cacttattaa tttatgaaac tgtttttctc     540
agcgagttt  tgttt                                     555

```

<210> 129

<211> 511

<212> DNA

<213> Homo sapiens

<400> 129

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gtcctatagt tttactctc agttcctcac catcatcatc ttgtctaaga cccccattat      60
aatattcatg cgctgctttt tcatcaaac ctaccctgtc ctagagatct atgggcattt     120
ggtggatgat aatgagcagc ccctcccaga tagaatgtca atatttgagc agtaggatat     180
tggcatttgt tagttaaagg cttaaataca aagaatgtcc aatggtagga atttcaaggt     240
gtaggtcaga tatttgagaa taggggattt ttttgatgtg ccttaaatta taccaaagat     300

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22335_US_Sequence_Listing_060807.txt

tactaattat tcctcttttgc ccaaaataact tgcattccaag gttctagtct ctgttgctgt 360
gctggtcttt agccccactg ctggcactga tgtccctcct ttttcacgga gacctatctg 420
aggtacagga tggggctggc accagatgat gtcccaccac agtccctcac ctccggcctc 480
cacatgacag aaccaattta cactcaacca t 511

<210> 130
<211> 468
<212> DNA
<213> Homo sapiens

<400> 130
gcataccctt actctgccag agtagtgaag ctaattaaac acgtttgggt tctgaataaa 60
ttgaactaaa tccaaactat ttcctaaaat cacaggacat taaggaccaa tagcatctgt 120
gccagagatg tactgttatt agctgggaag accaattcta acagcaaata acagtctgag 180
actcctcata cctcagtggg tagaagcatg tctctcttga gctacagtag aggggaaggg 240
attgttgtgt agtcaagtca ccatgctgaa tgtacactga ttcctttatg atgactgctt 300
aactccccac tgcctgtccc agagaggctt tccaatgtag ctcagtaatt cctgttactt 360
tacagacagg aaagtccag aaactttaag aacaaactct gaaagaccta tgagcaaata 420
gtgctgaata cttttttttt aaagccacat ttcattgtct tagtcaaa 468

<210> 131
<211> 409
<212> DNA
<213> Homo sapiens

<400> 131
atcccaaagc accaattact gccctctgcc tcagcagtac cagtataaga tgacattcca 60
aagactggag gcaactcagc ctgagttaat tcacaaaatt atgccatgct ggggcttgag 120
cttgagcttg ggcttaggct tgggctcagc ttttgaccct caggcatctc cttttccttc 180
ctgtcttcct ctcccttctc ctctgctgca gcatgatttt cttaatcttc agacactcac 240
tattttcatg aacagttacc ctctgtcccc acaaccaaag acaactcatg gcctcctttg 300
gcccttgtgt aacattgcaa acctgtggct ttgcaaaatg taccaggtc acaaggggat 360
tttttttttt ttagcaatga tatccctgtc tgggtcactt ttttaagctt 409

<210> 132
<211> 523
<212> DNA
<213> Homo sapiens

<400> 132
gctgcctttg ctaaaagtgc tgccatgtta ggtaattctg aggatcatac tgctttatct 60
agagctttgt ctcagcttgc agagggtgag gagaagatag accagttaca tcaagaacaa 120

22335_US_Sequence_Listing_060807.txt

gcttttgctg acttttatat gttctcagaa ctacttagtg actacattcg tcttattgct	180
gcagtgaaag gtgtgtttga ccatcgaatg aagtgcctggc agaaatggga agatgctcaa	240
attactttgc tcaaaaaacg tgaagctgaa gcaaaaatga tggttgctaa caaaccagat	300
aaaatacagc aagctaaaaa tgaaataaga gagtgggagg cgaaagtgca acaaggggaa	360
agagattttg aacagatatc taaaacgatt cgaaaagaag tgggaagatt tgagaaagaa	420
cgagtgaagg attttaaaac cgttatcatc aagtacttag aatcactagt tcaaacacaa	480
caacagctga taaaatactg ggaagcattc ctacctgaag cca	523

<210> 133
 <211> 564
 <212> DNA
 <213> Homo sapiens

<400> 133	
accaaggcgc gggcgggtgat gaactttgtg gttcgctacc ggccagacga gcagccgtct	60
ctgcggccac accacgactc atccaccttc accctcaacg ttgccctcaa ccacaagggc	120
ctggactatg agggaggtgg ctgccgcttc ctgcgctacg actgtgtgat ctctccccg	180
aggaagggct gggcactcct gcaccccggc cgcctcacc actaccacga ggggctgcca	240
acgacctggg gcacacgcta catcatgggtg tcctttgtcg acccctgaca ctcaaccact	300
ctgccaaacc tgccctgcca ttgtgccttt ttagggggcc tggccccgt cctgggagtt	360
gggggatggg tctctctgtc tccccacttc ctgagttcat gttccgcgtg cctgaactga	420
atatgtcacc ttgctcccaa gacacggccc tctcaggaag ctcccggagt ccccgctct	480
ctctccgcc cacagggggtt cgtgggcaca gggcttctgg ggactccccg cgtgataaat	540
tattaatggt cgcagtcctc actc	564

<210> 134
 <211> 562
 <212> DNA
 <213> Homo sapiens

<400> 134	
tcattgggta ctctgaaat cagacatggt cctgtagaaa gaattttaag ttaggctttc	60
tatgcaccta tcaagaatca agagaataga ttgtatcaaa caacggcagg gaaatccttc	120
agcaattcta atccactttg ggttttcagc tgtttttaca tctaaagcaa tagactagaa	180
ctgaattatc ttctacatag taaaatcaca attgtggaat tctggtgata ttaagggtgaa	240
ataacaaaac acaaaaggcc ctattttaac agttgatgtg acagtaagtt ttaatagaac	300
ctgtaacttc attttggaat tgcttctcca ccaaataagg gctttttccc ctatttaagg	360
agccagatgg attgaaagat gtggaaatag gcagctgtag atcttgatct tccaggtacc	420
ccatgtacct ttattgagct taattataat actgtcaaat tgccacgatc tcactaaagg	480

22335_US_Sequence_Listing_060807.txt

atttctatTT gctgtcagtt aaaaataaag ccctaaatac attttttattc tttctactga 540
gggcattgtc tgTTTTcttt gt 562

<210> 135
<211> 343
<212> DNA
<213> Homo sapiens

<400> 135
gtttctacat agtaaggTga ctgccaaata atatttgaag tcattctgtct ctttgtaaT 60
tattttatat gacctataaa tttaaaaatg tttttcagtg agtgctttta acaaacttaa 120
gcttctgccc tgccaaggga attaatgtta tcttgTgaaa ggtgttgctg tttgaattga 180
tgagaaatgg aagatgagaa ctccctaaga gttctcataa taaatcatct catcacaaT 240
caatacggta tacagagtta aagtggaaTg aggtaagaag atacagctac agaaaatagt 300
tgctgttatg ggagaacagt cattgtaatT gggtagtttt gtt 343

<210> 136
<211> 531
<212> DNA
<213> Homo sapiens

<400> 136
ctgttagctc ctactgtgg taaatgccac acacctttaa gtagataagc agacgatagt 60
tatctgttct tttgacttaa tctcatttgg tttgattttc cctctactaa ggctttccta 120
ccttcttcag gctgcctaag acatgtgaagc gaaacacttc aataattgtc catgaggaga 180
aaaaaagcat tgtcatgcat gaaggaaact gaacttgagg tggcctcctt gcttgttaca 240
tacctgggta tgtgtaggca gtttagtgca tctttgcctc tcagttgaaa cctgtataac 300
cctgtttaca agctgtgttg ttgcttcttg tgaaggccat gatattttgt tttttcccca 360
attaattgct attgtgttat tttactaact tctctctgta ttttttcttg cattgacatt 420
atagacattg aggacctcat ccaaacaatt taaaaatgag tgtgaagggg gaacaagtca 480
aaatattttt aaaagatctt caaaaataat gcctctgtct agcatgccaa c 531

<210> 137
<211> 490
<212> DNA
<213> Homo sapiens

<400> 137
tttttccttc actaccttaa atatgcaaga aatactgact tggatataggg taccttagtt 60
ttctctattc attagacagg taaaattata tttcagctga ttgatctgtg tgacaaaatt 120
atttcttagc tataatcagc acatcactta gttcaaaca aattccccag caaatgtag 180
atagtaggta tatcagtcac ctggggagtt ttcttcataa tatgcatatt catcttgtaa 240

22335_US_Sequence_Listing_060807.txt

tgcatacata gttatcatcc tcctttctcaa cccatctccc taacccccaca tgcttgccag 300
 ttcttgaagg gataaagtga ttctaataat gttttacttc tctctgttca atttaatgtg 360
 atataattct agtataaaaa tatttttgac agttgcttaa catggtcata agaggatttg 420
 tactatagaa tatcttctag tactaatttt tctgtagagc aaattatatt tctctcactg 480
 gatagttttt 490

<210> 138
 <211> 525
 <212> DNA
 <213> Homo sapiens

<400> 138
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 aatttgacct tgatagagga gagcctcacc tccgagttca ttcatgacat agaccgagaa 120
 ctgaagaccg tgcaggcggg cctcactgtc cccaagctga agctgagtta cgaaggcgaa 180
 gtcaccaagt ccctgcagga gatgaagctg caatccttgt ttgattcacc agacttttagc 240
 aagatcacag gcaaaccat caagctgact caggtggaac accgggctgg ctttgagtgg 300
 aacgaggatg gggcggaac cccccagc ccagggtgc agcctgcca cctcaccttc 360
 ccgctggact atcaccttaa ccagccttc atcttcgtac tgaggggacac agacacaggg 420
 gcccttctct tcattggcaa gattctggac ccagggggcc cctaatatcc cagtttaata 480
 ttccaatacc ctagaagaaa acccgaggga cagcagattc cacag 525

<210> 139
 <211> 540
 <212> DNA
 <213> Homo sapiens

<400> 139
 tagaacgggc atctactcca gtacttcctg ccataaaact ccagataaag taaaccatgc 60
 agtactggct gttgggtatg gagaaaaaaa tgggatccct tactggatcg tgaaaaactc 120
 ttgggggtccc cagtggggaa tgaacgggta cttcctcatc gagcgcgga agaacatgtg 180
 tggcctggct gcctgcgcct cctaccccat ccctctgggtg tgagccgtgg cagccgcagc 240
 gcagactggc ggagaaggag aggaacgggc agcctgggccc tgggtggaaa tcctgccctg 300
 gaggaagttg tggggagatc cactgggacc cccaacattc tgccctcacc tctgtgcca 360
 gcctggaaac ctacagacaa ggaggagttc caccatgagc tcacccgtgt ctatgacgca 420
 aagatcacca gccatgtgcc ttagtgtcct tcttaacaga ctcaaaccac atggaccacg 480
 aatattcttt ctgtccagaa gggctacttt ccacatatag agctccaggg actgtctttt 540

<210> 140

22335_US_Sequence_Listing_060807.txt

<211> 257
<212> DNA
<213> Homo sapiens

<400> 140
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gggcagagat gtggttcgag attctccccg gactctccgt catgggctgt tgcttggtga 120
ttccaggact ggctactgag tacatccaca gggttactaa cgggggcaag gaaaaaaggg 180
ttgctcattt tgggtatcac tggagtctga tggaaagaga taggcgcac tctggagttg 240
atcggtacta tgtgtca 257

<210> 141
<211> 463
<212> DNA
<213> Homo sapiens

<400> 141
gacaagatct tcatggacac gctgcccttc tgacccttgc ctgggaacac gtgtgcacat 60
gcgcactctc atatgccacc ccatgtgcct ttagtccacg gacccccaga gcacccccaa 120
gcctgggctt gagctgcaga atgactccac cttctcacct gctccaggag gtttgcaggg 180
agctcaagcc cttggggagg gggatgcctt catgggggtg accccacgat ttgtcttatt 240
ccccccagcc tggccccggc ctttatgttt ttgtgaagat aaaccgtttt taacacatag 300
cgccgtgctg taaataagcc cagtgtctgt gtaaatacag gaagaaagag cttgaggtgg 360
gagcggggct gggaggaagg gatggggccc gccttcctgg gcagcctttc cagcctcctg 420
cctggctctc tcttctacc ctcttccac atgtacataa act 463

<210> 142
<211> 513
<212> DNA
<213> Homo sapiens

<400> 142
ggtgtgtgac agctcacatg ttacacact cagtgcccta atttcccctg aggggaatcgc 60
ttttaagtgt atccttacag tgggtgttta tgttacttta ttacagagct ccttggtttt 120
ttacttctgc acttaaattt ttttaaataa catgatgatg gtacattttc ctctattgtc 180
tagctaaggg ctttcgggtc accagtaaata aagatcaaata gctcttaaata gttcctgtta 240
ccatcctaata gtaaatactg gatttttctg tcatttagca ccatgctgct tctgtctgtc 300
ttaatgctgg cattaagatc atgagccctt tttctccagt agtacaggct ttgaaaacta 360
cttctattaa gttattgatg caatttgata tttttcata atctatattt aaacaaaatt 420
acatcattgc atcatctttt ctaaattcat ctccattaaa acttgcctta agctaccaga 480
ttgcttttgc caccattggc catactgtgt gtt 513

22335_US_Sequence_Listing_060807.txt

<210> 143
<211> 397
<212> DNA
<213> Homo sapiens

<400> 143
gaaaaactaa taaggggctg gctcattacc tcaaggagta taaagaggcc atacacgata 60
tgaatttcag caatgaggac atgataggag aatttgacaa tatggctaag gtgcaggatg 120
agaagagaaa aagcaaacag aaattggggg cgttttttgtg gatgcaaaga aatttacagg 180
accccttcta ccctagaggt ccaaggggaat tcaggggtgg ctgcagggcc ccacgaaggg 240
acattgaaga cattccttat gtgtagtgtc cctggcaggc atttaccagg ccatgtgctt 300
taacgttacg gtaatacttt actttaggca tccctcctgt tgctagcagc cttttgacct 360
atctgcaatg cagtgttctc agtaggaaat gttcatc 397

<210> 144
<211> 441
<212> DNA
<213> Homo sapiens

<400> 144
ataccttcag tcaactttac caagaagtcc tggatttcca agatccgcgt ctgaaagtgc 60
agtacatcgt ttgtacctga aactgccgcc acatgcactc ctccaccgct gagagttgaa 120
tagcttttct tctgcaatgg gagttgggag tgatgcgttt gattctgccc acagggcctg 180
tgccaaggca atcagatctt tatgagagca gtattttctg tgttttcttt ttaatttaca 240
gcctttctta ttttgatatt tttttaatgt tgtggatgaa tgccagcttt cagacagagc 300
ccacttagct tgtccacatg gatctcaatg ccaatcctcc attcttctc tccagatatt 360
tttgggagtg acaaacattc tctcatccta cttagcctac ctagatttct catgacgagt 420
taatgcatgt ccgtgggttg g 441

<210> 145
<211> 496
<212> DNA
<213> Homo sapiens

<400> 145
gaactcattt tcctcagtag agactagtga tgcattagct tctgggaaca aacttgatc 60
ggttcttaat taaattatcc aaaacggagg catttaaaca cttggattta caccagtctt 120
ttgtgtttgc tttttaaaat aaagtgctcg tatttgtatt ctccatattt tggagtaatt 180
atctacatga tgtttatagt tcctgtgggt tttcacccaa gaagcagaat ctcatcagt 240
acatttagtt ttataagagt catgaagcta aatccttggg ctatgtcaga ggcacaaagt 300
ctagaatgtg tgtattcaca atggtgtatg tacattttgt gccttgattc acttagaagt 360

22335_US_Sequence_Listing_060807.txt

gtctcagaaa acctggacag ttcgcttcta cacaagaatt ttatatgtat ttatgaagat 420
gattctgtac cctagtatat ctttttgggc atggactaat ttgtatctgt ttaactcata 480
ttctgcacga tctgta 496

<210> 146
<211> 475
<212> DNA
<213> Homo sapiens

<400> 146
tgaatcagcc ataacgcaca cacacgccac ccagcctctt gtttctagta tgtactttga 60
aatgctaact gagggctctt atgcttgagc ctttgactga taaaactcaa atagcagtcc 120
ccagtgattt gcctcttagg ttctttctta aattgttggt ggatgactgt acattttagt 180
gatttgaaaa ataactgaca aaccattgaa acagtttatt ttatgttgga agagatggcg 240
cagatgtgtg tcagaagga gatcacggtg tgagtttcgt agctatttaa gtgatacata 300
cctctagttt ttgtatgtct ttgagatcc tgagttcatc ccctgtgaat cagagtgcac 360
aagcacctct cctgtgagt gctaatagaga agagggacag accgaccacc agcacagtag 420
ggcagatctg gacagcagaa tggtataacg caagttcatg tgttgctccc aactc 475

<210> 147
<211> 519
<212> DNA
<213> Homo sapiens

<400> 147
ggattctgac ccattgcagg atcacaatat gtataatgat tcccaagggt gagatctttt 60
ccagttgttg atgccttgag ttttgccaac catggatggc aaatgtgatg tgctcccttc 120
cagctgggtga gaggaggagt tagagctggt cgttttgtga ttaccataa tattggaagc 180
agcctgaggg ctagttaatc caaacatgca tcaacaattt ggcctgagaa tatgtaacag 240
ccaaaccttt tcgttttagtc ttattataaa ttataattg gtaattggac cagttttttt 300
tttaatttcc ctctttttta aacagttacg gcttatttac tgaataaata caaagcaaac 360
aaactcaagt tatgtcatac ctttggatac gaagaccata cataataacc aaacataaca 420
ttatacacia agaatacttt cattatttgt ggaatttagt gcatttcaaa aagtaatcat 480
atatcaaact aggcaccaca ctaagttcct gattattttt 519

<210> 148
<211> 530
<212> DNA
<213> Homo sapiens

<400> 148
cacacaaata tgccacctca aacaagcaca agttgacccc ggaatatctg gagctcaaaa 60

22335_US_Sequence_Listing_060807.txt

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agtaccaggc cattgcttct aacagtaaga tctatttttg cagcaacatc cctaacatgt 120
tcgtggactc ctcatgtgct ttgaaatatt cagatattag gactggaaga gaaagctcac 180
tccccctctaa ggaggctctt gaaccctctg gagagaacgt catccaaaac aaagagagca 240
caggttgatg caagaggtgg aaatgttctc catatcaaga tgtggcccaa ggggttaagt 300
gggaacaatc attatacgga ctcttcagat ttacagagaa cttacacttc atctgttcca 360
cctctcctgc gatagtcttg ggtgctccac tgattggagg atagagccag ctgtctgaca 420
cacaaatggg cttttcagcc acagtcttat caagtatcct atatgtattc ctttctaaac 480
tgctactcat gaatgaggaa agtctgatgc taagatactg cctgcactgg 530

```

```

<210> 149
<211> 477
<212> DNA
<213> Homo sapiens

```

```

<400> 149
ttcccaatcc ttagcaatgc cttagctggg acgcatagct aatactttag agaggatgac 60
agatccataa agagagtaaa gataagagaa aatgtctaaa gcatctggaa gggtaaaaaa 120
aaaaatctat ttttgtacaa atgtaatttt atccctcatg tatacttgga tatggcgggg 180
ggagggctgg gactgtttcg tttctgcttc tagagattga ggtgaaagct tcgtccgaga 240
aacgccagga cagacgatgg cagaggagag ggctcctgtg acggcggcga ggcttgggag 300
gaaaccgccg caatgggggt gtcttccctc ggggcaggag ggtgggcctg tggctttcaa 360
gggttttctt ccctttcgag taatttttaa agccttgctc tgttgtgtcc tgttgccggc 420
tctggccttt ctgtgactga ctgtgaagtg gcttctccgt acgattgtct ctgaaac 477

```

```

<210> 150
<211> 282
<212> DNA
<213> Homo sapiens

```

```

<400> 150
ctaaggcagt atctcgctca cagagagctg ggctacagtt tcctgtgggc cgcattccaca 60
gacacttgaa gactcgcacc acaagccatg gaaggggtggg tgccactgct gccgtgtaca 120
gtgctgcatg tctggagtac ctactgcag aggtgctgga gctggcagggt aatgcttcta 180
aggatctcaa agtaaagcgt atcactccgc gtcacttgca gcttgcaatc cgtgggtgatg 240
aagagttgga ttctcttatc aaggctacca tagctggggg tg 282

```

```

<210> 151
<211> 169
<212> DNA
<213> Homo sapiens

```

```

<400> 151

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22335_US_Sequence_Listing_060807.txt

aaaaatgcac atagctatcg agtgtgcttt agcttgaaaa ggtgaccttg caacttcatg 60
tcaactttct ggctcctcaa acagtaggtt ggcagtaagg cagggtccca tttctcactg 120
agaagattgt gaatatttcc atatggattt tctattgtta ctctgggttc 169

<210> 152
<211> 454
<212> DNA
<213> Homo sapiens

<400> 152
gtcgtctttc tattttcagg tcagctgatt agccacctta gttccatctg caactttagt 60
tcccactggc tgtgtaacct aacatagtca caggctctgg ggactgtcac gtggacatct 120
ttgggaggcc gttattctgc ccaccgcacc ctccgttcat cccctgccct gccgggcacc 180
tcgctctacc ccaggaaaat gtgagctcgt tttcctgctc ggcatgtgct cccctaagg 240
ctctgctcct ccctgggcct gaaagtccct tctcagcctg agagggggcc cttcgatctc 300
aggcatgact cagcccggct gatgcctctg cagtgtgag tcaggatttg gggccggctc 360
tcttgggtct gtcccccttt cccaggtact gccttacaaa gctgtggcca ggaagtggcc 420
ggtataaagg atgccaagg tctttgtacg tgtg 454

<210> 153
<211> 532
<212> DNA
<213> Homo sapiens

<400> 153
aaagctcagg attcttcgaa aagttgagaa aattgatgac ttcaaagctg aagactttca 60
gattgaaggg tacaatccgc atccaactat taaaatggaa atggctgttt aggggtgcttt 120
caaaggagct tgaaggatat tgtcagtctt taggggttgg gctggatgcc gaggtaaaag 180
ttctttttgc tctaaaagaa aaaggaacta ggtcaaaaat ctgtccgtga cctatcagtt 240
attaattttt aaggatgttg ccactggcaa atgtaactgt gccagttctt tccataataa 300
aaggctttga gttaactcac tgagggtatc tgacaatgct gaggttatga acaaagtga 360
gagaatgaaa tgtatgtgct cttagcaaaa acatgtatgt gcatttcaat cccacgtact 420
tataaagaag gttggtgaat ttcacaagct atttttggaa tttttttaga atattttaag 480
aatttcacaa gctattccct caaatctgag ggagctgagt aacaccatcg at 532

<210> 154
<211> 401
<212> DNA
<213> Homo sapiens

<400> 154
aagccatgtt tcgaagacct gtattacagg tacttcgtca gtttgtaaga catgagtccg 60

22335_US_Sequence_Listing_060807.txt

```

aaacaactac cagtttggtt cttgaaagat ccctgaatcg tgtgcactta cttgggcgag 120
tgggtcagga ccctgtcttg agacaggtgg aaggaaaaaa tccagtcaca atattttctc 180
tagcaactaa tgagatgtgg cgatcagggg atagtgaagt ttaccaactg ggtgatgtca 240
gtcaaaagac aacatggcac agaatatcag tattccggcc aggcctcaga gacgtggcat 300
atcaatatgt gaaaaagggg tctcgaattt atttggaagg gaaaatagac tatggtgaat 360
acatggataa aaataatgtg aggcgacaag caacaacaat c 401

```

```

<210> 155
<211> 513
<212> DNA
<213> Homo sapiens

```

```

<400> 155
gcagagtgcc taaaccataa cctcacaatc ttctttgatg tcaaaggcca tgcacacaag 60
gctactgagg ctctaaagaa aatgtatatg gaatttcctc aactgtataa taatagtgtg 120
gtctgttctt tcttgccaga agttatctac aagatgagac aaacagatcg ggatgtaata 180
acagcattaa ctcacagacc ttggagccta agccatacag gagatgggaa accacgctat 240
gatactttct ggaaacattt tatatttggt atgatggaca ttttgctcga ttggagcatg 300
cataatatct tgtggtacct gtgtggaatt tcagctttcc tcatgcaaaa ggattttgta 360
tccccggcct acttgaagaa gtggtcagct aaaggaatcc aggttggttg ttggactggt 420
aatacctttg atgaaaagag ttactacgaa tcccatcttg gttccagcta tatcactgac 480
agcatggtag aagactgcga acctcacttc tag 513

```

```

<210> 156
<211> 526
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (277)..(277)
<223> n = any nucleotide

```

```

<400> 156
gacttctggg aagcgtgcta acgataaaga aagaatcaga ataaaatgta cctgccatcc 60
agttttggat ctttttaaaa ctaatgagta tgaacttgag atctgtataa ataagagcat 120
gatttgaaaa aaagcatggt ataattgaaa cttttttcat tttgaaaagt attggttact 180
ggtgatgttg aaatatgcat actaattttt gcttaacatt agatgtcatg aggaaactac 240
tgaactagca attggttggt taacacttct gtatgcntca gataacaact gtgagtagcc 300
tatgaatgaa attcttttat aaatattagg cataaattaa aatgtaaaac tccattcata 360
gtggattaat gcattttgct gcctttatta ggggtacttta ttttgctttt cagaagtcag 420

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22335_US_Sequence_Listing_060807.txt

cctacataac acatttttaa agtctaaact gttaaacaac tcttttaaagg ataattatcc 480
aataaaaaaa aacctagtgc tgattcacag cttattatcc aattca 526

<210> 157
<211> 508
<212> DNA
<213> Homo sapiens

<400> 157
gtatcagaag cccattattc agagcgagta tggagcagaa acgattgcag ggtttcacca 60
ggatccacct ctgatgttca ctgaagagta ccagaaaagt ctgctagagc agtaccatct 120
gggtctggat caaaaacgca gaaaatatgt ggttggagag ctcatttgga attttgccga 180
tttcatgact gaacagtcac cgacgagagt gctggggaat aaaaagggga tcttcactcg 240
gcagagacaa ccaaaaagtg cagcgttcct ttgcgagag agatactgga agattgccaa 300
tgaaaccagg tatccccact cagtagccaa gtcacaatgt ttggaaaaca gcccgtttac 360
ttgagcaaga ctgataccac ctgcgtgtcc cttcctcccc gagtcagggc gacttccaca 420
gcagcagaac aagtgcctcc tggactgttc acggcagacc agaacgtttc tggcctgggt 480
tttgtggtca tctattctag cagggaac 508

<210> 158
<211> 511
<212> DNA
<213> Homo sapiens

<400> 158
tacacgcgtt atctacgggc cgcgagcccc gcgtggccac ggtcactcgc atcctgcgcc 60
agacgctctt caggtaccag ggccacgtgg gtgcatcgct gatcgtgggc ggcgtagacc 120
tgactggacc gcagctctac ggcgtgcac cccatggctc ctacagccgt ctgcccttca 180
cagccctggg ctctggtcag gacgcggccc tggcgggtgct agaagaccgg ttccagccga 240
acatgacgct ggaggctgct caggggctgc tgggtggaagc cgtcaccgcc gggatcttgg 300
gtgacctggg ctccgggggc aatgtggacg catgtgtgat cacaagact ggcgccaagc 360
tgctgcggac actgagctca cccacagagc ccgtgaagag gtctggccgc taccactttg 420
tgcctggaac cacagctgtc ctgaccaga cagtgaagcc actaaccctg gagctagtgg 480
aggaaactgt gcaggctatg gaggtggagt a 511

<210> 159
<211> 504
<212> DNA
<213> Homo sapiens

<400> 159
gccactacac ttcttaaggc gagcatcaaa agccggggag gttgatgttg aacagcacac 60

22335_US_Sequence_Listing_060807.txt

```

tttagccaag tatttgatgg agctgactct catcgactat gatatgggtgc attatcatcc 120
ttctaaggta gcagcagctg cttcctgctt gtctcagaag gttctaggac aaggaaaatg 180
gaacttaaag cagcagtatt acacaggata cacagagaat gaagtattgg aagtcatgca 240
gcacatggcc aagaatgtgg tgaaagtaaa tgaaaactta actaaattca tcgccatcaa 300
gaataagtat gcaagcagca aactcctgaa gatcagcatg atccctcagc tgaactcaaa 360
agccgtcaaa gaccttgcct cccactgat aggaagggtcc taggctgccg tgggccctgg 420
ggatgtgtgc ttcattgtgc cttttttctt attggtttag aactcttgat tttgtacata 480
gtcctctggt ctatctcatg aaac 504

```

```

<210> 160
<211> 549
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (76)..(76)
<223> n = any nucleotide

```

```

<400> 160
aaactactaa ccactgcaag ctcttgtaa attttagttt aattggcatt gcttgttttt 60
tgaaactgaa attacntgag tttcattttt tctttgaatt tatagggttt agatttctga 120
aagcagcatg aatatatcac ctaacatcct gacaataaat tccatccggt gttttttttg 180
tttgtttggt ttttcttttc ctttaagtaa gctctttatt catcttatgg tgcagcaatt 240
ttaaaatttg aaatatttta aattgttttt gaactttttg tgtaaaatat atcagatctc 300
aacattgttg gtttcttttg tttttcattt tgtacaactt tcttgaattt agaaattaca 360
tctttgcagt tctgttaggt gctctgtaat taacctgact tatatgtgaa caattttcat 420
gagacagtca tttttaacta atgcagtgat tctttctcac tactatctgt attgtggaat 480
gcacaaaatt gtgtaggtgc tgaatgctgt aaggagttaa ggttgtatga attctacaac 540
cctataata 549

```

```

<210> 161
<211> 533
<212> DNA
<213> Homo sapiens

```

```

<400> 161
tgcaatcatt gatgtgcctg tccccagttt ctctgatagt gaccctgcag caattattca 60
tgactttgaa aagggaatga ctgcttacct ggacttggtg ctgggggaact gctatctgat 120
gcccctcaat acttctattg ttatgcctcc aaaaaatctg gtagagctct ttggcaaact 180

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22335_US_Sequence_Listing_060807.txt

ggcgagtggc agatatctgc ctcaaactta tgtgggttcga gaagacctag ttgctgtgga	240
ggaaattcgt gatgttagta accttggcat ctttatttac caactttgca ataacagaaa	300
gtccttccgc cttcgtcgca gagacctctt gctgggtttc aacaaacgtg ccattgataa	360
atgctggaag attagacact tccccaacga atttattggt gagaccaaga tctgtcaaga	420
gtaagaggca acagatagag tgtccttggg aataagaagt cagagattta caatatgact	480
ttaacattaa ggtttatggg atactcaaga tatttactca tgcatttact cta	533

<210> 162
 <211> 436
 <212> DNA
 <213> Homo sapiens

<400> 162	
taataacctta tgttgtcctt aaatatttct aaaagcgcct ttatttcagc attacctttt	60
tttcatcact atcttttata aaacattaat ataagtcgtt acttttagaa actaaaggaa	120
ataatagctg gaaaaccctc tgtagttaa aatcagtcac taaactcaca atagggttaag	180
taaatatagc cacctgttaa catgtaaata agcataattt gttccaaaga tggaatattg	240
aaacttagtt catgtctgct gtaaaatatt atttaaatgc tgctgggcat ttcacttaaa	300
gaacttaatg tcaacagcta caacaaagac caaatctgaa ctgctaattg ggctgctttg	360
tagggaatgg actaatatca gtgtgttaga tcttaaggta tcagtatttc agaatcctgc	420
gacgatttta tttcta	436

<210> 163
 <211> 418
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (66)..(66)
 <223> n = any nucleotide

<400> 163	
gttactgatg ctcttccagg acacgaaaag aacccatctt tgaatatcaa tgattttttt	60
tttttnaagt actgttccgg ggagaaaaac agtctcaaaa cttgaacttc ttgggaagag	120
aagtgttggg ctgagaagta acattcccag gaaatagtga gaagctcgcc ctgtgtttga	180
aaccgtgttg gtctctgtgt tcctggaaga aaacagggaa gcagcatctt ttaaagcctg	240
ttctttaagg tgtctcgta gagcccaaag tggaatccgg aaggcagcca gagctgaggg	300
tgccccaaga ctgagacttg ctaagaatta cgccgcccgc ttcaaacca gagagcatct	360
ttcttttagg cgaaaacgca tatatttatt ttttgtaagt tataccattc tttcacat	418

22335_US_Sequence_Listing_060807.txt

<210> 164
<211> 526
<212> DNA
<213> Homo sapiens

<400> 164
 accaacatct ggtcttccag gcactcaaaa gctgggaacc agcatctcag cgccagctct 60
 accagttctc gttttgggccc agaggcagcc tctgcactcc cacgcctgtc ctcttggaag 120
 ggacctgggtt ggactaacgg ctaacctgga cctggaactg tagggccagg ggattgtctc 180
 agggccgacg ttccacctgg ggcttccctc cccacccacc ccgactccag gctttccctt 240
 ttttcttttg ttcaacattg taagaacaat caatgctggt attactgatc ccaccatgat 300
 tgatgtgggg taaatattaa ggagatggcc tcatgggaat ttgaccttga ctagaaatag 360
 agactgagag tgagcaacca gctggaaggc actatgccag tcctagcaga aaaatgtggt 420
 aggggcctgg cccaaagcag tgttgggtgc ttacagtgtt gattgatttt gttctttttt 480
 cttaccacct cttttctttc cctctcatgg tacctgctca tgggtta 526

<210> 165
<211> 487
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (190)..(308)
<223> n = any nucleotide

<400> 165
 aatacctgta gttcagttag taactttttc atatatagca tgttgcctgt atgcagttga 60
 actatataaa gttcattgca aagcagatta tcttggtttt ttgcatagca atcaaagttg 120
 aaatttgttt gctacatcaa caaattaagg acattttcac aaactgagaa ataaacaaat 180
 atgccaattn nnannnnnnn ttgccttatc ctttgaatgt gacttaaaat cagcaatgat 240
 gatatagtaa atactgaaat ttaggtgtaa atcaatacgt tctacaggga aataatgagg 300
 ctaagtantt ttatgttttt agtggttttt tagaaacctt atcttatagc cgccattagc 360
 attactagag ttatgcaaata aattgcatta taaacatggt tataacttag ccaaaacatt 420
 gatttttata actctccaag tatgagttga aatttcttat gtctttttgat aaactgcagt 480
 attcttt 487

<210> 166
<211> 424
<212> DNA
<213> Homo sapiens

<400> 166
 acctgatatt cgttgttggt ttattgttaa aagtttatta tgcaactctg gaggtataga 60

22335_US_Sequence_Listing_060807.txt

gggcatataa gctatgggac atatgctgat cacaggctat attcatgaag ttacttttga	120
ccaacctgaa aactgatagg attttgtttg tcatttggtg atttctactg cattcttacc	180
atccttctct cacaaatfff gatagcttga agatcttttt aattataatt ttgttgtatt	240
tgtttcctag gagcaagtgt tcctgctgcc agttctttcc tctttaggcg tggttgagaa	300
aaagcagaaa ctttacataa agctgtatff cttaatcatc ttttaattga aacttaagaa	360
aatgaattta ttctgttata tttatgtaac ttatttcctg gaagttatat ctactagttt	420
tgtt	424

<210> 167
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 167	
atcactactc tgggaaatgg tttgtcttca agatgcaata cttttcttag ataaggaaaa	60
acagcataaa aagatacctg gtctgccttg tacaagaaaa ccgaatatta gaggaagaaa	120
atttaaagaa aagctagaga aaaaaaaaaat tttttaaaaa atacctatta gaagcaaact	180
gcccttgcat ggaaaactgt ttattttttt cagtgaaaaa ggaattctgc tttcgtgttt	240
ttgggaaagc aggaactgag ttcattacat ctttaatttg gcagaaatta gcctttctgt	300
gaaccagatg tggtttgggg cagatctgta gtaaacaatg gtgattttat ttatttttac	360
tctctggaaa aggagataat acaattccag aaagtgaact catatttcta aggtaagatc	420
ccttttatgc acctagaata tgctatgcac agagcgggtg cttgagttgt tgcgttttt	480
tgtttgtttt ttaaattgtaa actggtaaatt tttgtgctta tcttcaaggc tggcttaagt	540
ataaaa	546

<210> 168
 <211> 519
 <212> DNA
 <213> Homo sapiens

<400> 168	
tggagtccta ttgacatcgc cagtaaaatt atcaatgttc tagttctgtg gccatctgct	60
tagtagagct ttttgcattg atcttctaag aattttatct gttttgtact ttagaaatgt	120
cagttgctgc attcctaaac tgtttatattg cactatgagc ctatagacta tcagttccct	180
ttgggcggat tgttgtttta cttgtaaatg aaaaaattct cttaaaccac agcactattg	240
agtgaacat tgaactcata tctgtaagaa ataaagagaa gatataattag ttttttaatt	300
ggtattttta tttttatata tgcaggaaag aatagaagtg attgaatatt gtttaattata	360
ccaccgtgtg ttagaaaagt aagaagcagt caattttcac atcaaagaca gcattctaaga	420

22335_US_Sequence_Listing_060807.txt

agttttgttc tgccttgaa ttattttagt agtgtttcag taatgttgac tgtattttcc 480
aacttgttca aattattacc agtgaatctt tgtcagcag 519

<210> 169
<211> 531
<212> DNA
<213> Homo sapiens

<400> 169
ggaggcagtg aagggttgc cctgctggcc tctcatcccc cttcttccca caacccttgg 60
gcagggctgg actcagtaat tttgaggaaa ttgaagatgc catcttcccc tgtgagtgac 120
atgtctttta ttttttaaaa aactactatt tgaaaattgg agggggaaga atgggaaggg 180
agttattgcc aaatatgtta aatatgggtt ggggtgcttg tatatgtatc ttcctcaatt 240
tccccataaa tgaggatatc ttttgtcaca ccaaaatcaa ggggtaggga gagggaggag 300
gttgcaaaaa gccagatgtg gggaaaagta acatcaacac tgtcccatcc tcagccctga 360
actagctacc atctgatccc ctcagacatt ctcaggattt tacaagactg tcagagtggg 420
gaaccctcc cattaaagat ccgggcagga ctgggacagg ttggaagtgt gatgggtggg 480
ggggtgggag gcatgggccg gggggctagt tctctcctca cttgtaaact t 531

<210> 170
<211> 557
<212> DNA
<213> Homo sapiens

<400> 170
atccgaattc tccatatatt cactaatcaa agacactatt ttcatactag attcctgaga 60
caaatactca ctgaagggtg tgttttaaaa taaattgtgt tttggtctgt tctttagat 120
aatgcccttc tatttttaggt agaagctctg gaatcccttt attgtgctgt tgctcttatt 180
tgcaagggtg caagcagttc ttttcagcag attttgccca ctattcctct gagctgaagt 240
tctttgcata gatttggctt aagcttgaat tagatccctg caaaggcttg ctctgtgatg 300
tcagatgtaa ttgtaaagt cagtaatcac ttcatgaatg ctaaagtaga atgtaagtat 360
ttttaaatgt gtgtatttca aatttgtttg actaattctg gaattacaag atttctatgc 420
aggatttacc ttcacctgt gcatgtttcc caaactgtga ggagggaagg ctcagagatc 480
gagcttctcc tctgagttct aacaaaatgg tgctttgagg gtcagccttt aggaagggtgc 540
agctttgttg tcctttg 557

<210> 171
<211> 508
<212> DNA
<213> Homo sapiens

<400> 171

22335_US_Sequence_Listing_060807.txt

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agccctggag aagacgaaag ccaacatcaa gtgggtgaag gagaacaagg aggtggtgct    60
ccagtgggttc acagaaaaca gcaaatagtc cccagccctt gaagtcaccc ggccccgatg    120
caaggtgccc acatgtgtcc atcccagcgg ctggtgcagg gcctccattc ctggagccccg    180
aggcaccagt gtcctcccct caaggacaaa gtctccagcc cacgttctct ctgcctgtga    240
gccagtctag ttcctgatga cccaggctgc ctgagcacct cccagcccct gcccctcatg    300
ccaaccccgc cctaggcctg gcatggcacc tgctgcccag tgccctgggg ctgatctcag    360
ggaagcccag ctccagggcc agatgagcag aagctctcga tggacaatga acggccttgc    420
tgggggccgc cctgtaccct ctttcacctt tccctaaaga ccctaaatct gaggaatcaa    480
cagggcagca gatctgtata tttttttc    508

```

<210> 172
 <211> 193
 <212> DNA
 <213> Homo sapiens

```

<400> 172
gtttattcta ctgcagtagc cagtggaaaca aagttttag ttattttgcc acttactttt    60
ctgtcattat atgcttattt gttttgtcat ttacgtgacc atttgattct caaacaaaag    120
ttgttccaaa caaatgatg aactttgatt tgaacagggt catttaaaca accggaaatg    180
atcacttaga aaa    193

```

<210> 173
 <211> 470
 <212> DNA
 <213> Homo sapiens

```

<400> 173
tcttccccga gaacttcact gagaggggtcc catgacggcg gggcccaggc agcctccggg    60
cgtgtgaaga acacctcctc ccgaaaaatg tgtggttctt ttttttgttt tgttttcggt    120
tttcatcttt tgaagagcaa agggaaatca agaggagacc cccaggcaga ggggcgttct    180
cccaaagttt aggtcgtttt ccaaagagcc gcgtcccggc aagtccggcg gaattcacca    240
gtgttcctga agctgctgtg tcctctagtt gagtttctgg cggccctgcc tgtgcccgca    300
tgtgtgcctg gccgcagggc ggggctgggg gctgccgagc caccatactt aactgaagct    360
tcggccgcac caccgggga agggtcctct tttcctggca gctgctgtgg gtggggccca    420
gacaccagcc tagcctgctc tgccccgcag acggtctgtg tgctgtttga    470

```

<210> 174
 <211> 442
 <212> DNA
 <213> Homo sapiens

<400> 174

22335_US_Sequence_Listing_060807.txt

```

ttaggacaga agcctacctc atcccaggcc tgcccctccg tgcatagctc tgcctttggg    60
tcttgttcat agtgctgttc aggcaaaatg gaatagtctc aggagggaac accttctctt    120
gctagctcca ggaaggcttt gtgggaaatg agttgagacc atggacttgg gagttggggg    180
ccagagttga gcctggactt gaccaattaa ttcccttacc tttcagccca agatagctac    240
atgtctttac ttgctgtata agttttcctt ttgtcctggg ggtgcctgat tgatcctatc    300
tcttcaccct tcattctttc aacaaacatg ccatctatct cccaggacat ttattccctt    360
ctattcaagg ccagttagga atgcaattat tttttttttc agttaataac agacttgttt    420
ggacgcaagg taccctttct ct                                           442

```

<210> 175
 <211> 459
 <212> DNA
 <213> Homo sapiens

```

<400> 175
gccttccctg aatcagacaa ccttttcaaa tgggtaggga ccatccatgg agcagctgga    60
acagtatatg aagacctgag gtataagctc tcgctagagt tccccagtgg ctacccttac    120
aatgcgccca cagtgaagtt cctcacgccc tgctatcacc ccaacgtgga caccagggt    180
aacatatgcc tggacatcct gaaggaaaag tggctctgcc tgtatgatgt caggaccatt    240
ctgctctcca tccagagcct tctaggagaa cccaacattg atagtccctt gaacacacat    300
gctgccgagc tctggaaaaa cccacacagc tttaagaagt acctgcaaga aacctactca    360
aagcaggtca ccagccagga gccctgaccc aggctgcccc gcctgtcctt gtgtcgtctt    420
tttaattttt ccttagatgg tctgtccttt ttgtgattt                                           459

```

<210> 176
 <211> 250
 <212> DNA
 <213> Homo sapiens

```

<400> 176
tacatccctc tgctctttta aaggacgctg gagctgaggt ttcctacctg aaaaatgatt    60
tctctggatt gcagtgtctg agttactggg aaagatgctt agaagtctta ctcaaacttg    120
caacactcca gtccctttta gtgctgggtg attttgtgtg ttatattggc ctcatgttga    180
gcagaaagcc tgtttaaaca gtgtcagctc atgctcacgg gtccttcctt gtcttccacg    240
gcaggaaaag                                           250

```

<210> 177
 <211> 319
 <212> DNA
 <213> Homo sapiens

<400> 177

22335_US_Sequence_Listing_060807.txt

tggaggtcaa actgggggag ctgccaagct ggatcttgat gcgggacttc agtcctagt	60
gcatttttcgg agcgtttcaa agagggtact accggtacta caacaagtac atcaatgtga	120
agaaggggag catctcgggg attaccatgg tgctggcatg ctacgtgctc tttagctact	180
ccttttccta caagcatctc aagcacgagc ggctccgcaa ataccactga agaggacaca	240
ctctgcaccc cccaccccca cgaccttggc ccgagcccct ccgtgaggaa cacaatctca	300
atcgttgctg aatcctttc	319

<210> 178
 <211> 549
 <212> DNA
 <213> Homo sapiens

<400> 178	
ccatgcccag tcttcaaatt tctaattgtt gcagtgttta aatgttttgc aaatacatgc	60
cattaacaca gatcaataat atctcctctg agaatttatg atcttaagtc tatacatgta	120
ttcttataag acgaccagg atctactata ttagaataga tgaagcagg agcttctttt	180
ttctcaaattg taattcagca aaataatata gtactgccac cagatttttt attacatcat	240
ttgaaaatta gcagtatgct taatgaaaat ttgttcagg ataaatgagc agttaagata	300
taaacaattt atgcatgctg tgacttagtc tatggattta ttccaaaatt gcttagtcac	360
catgcagtgt ctgtattttt atatatgtgt tcatatatac ataatgatta taatacataa	420
taagaatgag gtggtattac attattccta ataataggga taatgctgtt tattgtcaag	480
aaaaagtaaa atcgttctct tcaattaatg gcccttttat tttgggacca ggcttttatt	540
ttccctgat	549

<210> 179
 <211> 435
 <212> DNA
 <213> Homo sapiens

<400> 179	
tttgttgcgt gtttccattt taaagtgagt tgagttctca aattggaaag aaagattcct	60
tgagacgtac ttttaaaatc taaagtgtga aagaaacagc agagtaaaag ccagactcat	120
tgcaccttca atgtctgcat agatccagaa gttgtacatt ttacctaaca acatcacttt	180
tgttgaacat tccaactcca gaatgatccc caatcaccct aatctcagaa tgctggaatg	240
atgtctgttg gaaaaccag gactccacac acaaaactcc tgggattttg tttcccatct	300
ctttctaggt gtttgcaatg tacaaataat acagctgtgc taatctcaca tttagccatg	360
atagatgatg gttctagagt gtacttccat ttgtaagtcc tcctgataag tgctttcttg	420
tttatcacta tgtaa	435

22335_US_Sequence_Listing_060807.txt

<210> 180
 <211> 513
 <212> DNA
 <213> Homo sapiens

<400> 180
 tgaaccacgt gttttgacat catgttaacc taagcacgta cagatgattc cggatttgac 60
 aaaataacat ttgagtatcc gattcgccat cacccttacc cccgaaatag gacaactcac 120
 ttcatlgacc aggatgatca catggaaggc ggcgcagagg cagctgtgtg ggctgcagat 180
 ttctgtgtg gggttcagcg tataaaacgc acctccatcc cgcccttccc acagcattcc 240
 tccatcttag atagatggta ctctccaaag gccctaccag agggaacacg gcctactgag 300
 cggacagaat gatgccaaaa tattgcttat gtctctacat ggtattgtaa tgaatatctg 360
 ctttaataata gctatcatctt cttttccaaa attacttctc tttatctgga atttaattaa 420
 tcgaaatgaa tttatctgaa tataggaagc atatgcctac ttgtaatttc taactactta 480
 tgtttgaaga gaaacctccg gtgtgagata tac 513

<210> 181
 <211> 560
 <212> DNA
 <213> Homo sapiens

<400> 181
 agctgccttc tcggatactg aaaggctcag ttttctgaac tgcactgatt ttattgcagt 60
 tgaaaaaccc aaagctattc caaagatttc aagctgttct gagacatctt ctgatggctt 120
 tacttcctga gaggcaatgt ttttacttta tgcataattc attgttgcca aggaataaag 180
 tgaagaaaca gcaccttttt aatatatagg tctctctgga agagacctaa atttagaaag 240
 agaaaactgt gacaattttc atattctcat tcttaaaaaa cactaatctt aactaacaaa 300
 agttcttttg agaataagtt acacacaatg gccacagcag tttgtcttta atagtatagt 360
 gcctatactc atgtaatcgg ttactcacta ctgcctttta aaaaaaccag catatttatt 420
 gaaaacatga gacaggatta tagtgcctta accgatatat tttgtgactt aaaaaatata 480
 tttaaaactg ctcttctgct ctagtaccat gcttagtgca aatgattatt tctatgtaca 540
 actgatgctt gttcttattt 560

<210> 182
 <211> 547
 <212> DNA
 <213> Homo sapiens

<400> 182
 tggggacttg tggatcattc cttcctccct gcaggagctt cccaagctgg tcacagagtc 60
 tcctgggcac aggttataca gaccccagcc ccattcccat ctactgaaac agggctctcca 120
 caagaggggc cagggaatat ggggttttta caagcgtctt acaaaacact tctctatcat 180

22335_US_Sequence_Listing_060807.txt

gcagccggag agctggctgg gagccctttt gttttagaac acacatcctt cagcagctga 240
gaaatgaaca cgaatccatc ccaaccgaga tgccattaac attcatctaa aaatgttagg 300
ctctaaatgg acgaaaaatt ctctcgccat ctttaataaca aaataaacta caaattcctg 360
acccaaggac actgtgttat aagaggcgtg ggctcccctg gtggctgacc aggtcagctg 420
ccctggcctt gcacccctct gcatgcagca cagaaggggtg tgaccatgcc ctcagcacca 480
ctcttgtccc cactgaacgg caactgagac tgggtacctg gagattctga agtgcctttg 540
ctgtggt 547

<210> 183
<211> 398
<212> DNA
<213> Homo sapiens

<400> 183
ggcaactcca gacctctggg aacaagactg cgggctctgc ccccagctct gccaggacgg 60
ctgcaagacc agctggcccc ggaggggaca acgggctgtt gcgggtgcgc ggcagctgga 120
gacactcccc cgcagggccca acccctgccc tgttgctctg ccctgcaggg gtcccggcgc 180
atggtcacct ggggtgcaca caggtcacac agtgccaaga ggccccaggg cccagggact 240
ccccccacag cagggtggga cccgggaccc gcggctcagt ggcccgctag ccacgtcagc 300
caagccactt taggtccatt ttttaatttt aacagtgtc ttccatcttg tgcataagcc 360
tgagatttgg aaagaataaa acaccgaatt gcagaaga 398

<210> 184
<211> 423
<212> DNA
<213> Homo sapiens

<400> 184
ctgccattca cactgactta gaacgggggg aggggggtacc aggtggccag gtgggactgt 60
ttcaaatttc cctgatcccc aggcttgggg caattggtaa aggaaagagc aggtgtgggg 120
gttaagcact tatttgaggt ggggggtgttc acctctcttc tcatcccttt atcagaatat 180
agggtcctc tcattcctgt gaacccccag tcctggcttc tttgtttgag gggattgtgt 240
gaggttcagt tgtgggggtg gtggtgagct gctgcatatt ttttattgtg tttctctagt 300
gttatggcag tggaggtggg aatttagtcc ccaggtggga caagggaagt tttttcattt 360
tggagctagt tactgggagt aaggggagggg ggggtggggg ggagttcagg tttatgtgtg 420
tgc 423

<210> 185
<211> 525
<212> DNA

22335_US_Sequence_Listing_060807.txt

<213> Homo sapiens

<400> 185
gatatggggt gctgggatcg attcctagct ttaccactaa ctagctgtgt ggccttgagt 60
aaatcccgtt acctctctga gcctcgggta ccctgtctgt aaaaaggag gtgagaatac 120
ctacctcacg gaactgttgg gaggtcaga tgagatgcta tatgtgaaaa cattctgtaa 180
gcttcgtaca aatgtgaagt attaataatta tcgcagtatt attgttggtta ttattattgt 240
tattattaac aatcttgggt gggtagtagg agagcaaaaa gtatgaatgg gatggagcta 300
agaagtctga atacttaatg aaatggactt ttggaaaga aatcagatga aggcataaaa 360
tttagttctt agctcttgaa cagaagccta aaattcctgg ttctctcagg gcttcgcctt 420
caagggttct ggaggaggga agggctcgca gggtccatgg gtgacagcct gagatctgtc 480
ccttcaacgg gctgggctgg gtatgtgcct accgatgaca atgtg 525

<210> 186
<211> 514
<212> DNA
<213> Homo sapiens

<400> 186
aggctgaagg cctatgtgcg tgacccatac gcactggacc tcatcgacaa gctgctggtg 60
ctggaccctg cccagcgcac cgacagcgat gacgccctca accacgactt cttctggtcc 120
gaccccatgc cctccgacct caagggcatg ctctccaccc acctgacgtc catgttcgag 180
tacttggcac caccgcgccg gaagggcagc cagatcacc agcagtccac caaccagagt 240
cgcaateccg ccaccaccaa ccagacggag tttagcgcg tcttctgagg gccggcgctt 300
gccactaggg ctcttgtgtt ttttttcttc tgctatgtga cttgcatcgt ggagacaggg 360
catttgagtt tatactcttc atgcataatt tatttaatcc ccaccctggg ctctgggagc 420
agcccgtga gtggactgga gtggagcatt ggctgagaga ccaggagggc actggagctg 480
tcttgcctt gctggttttc tggatggttc ccag 514

<210> 187
<211> 425
<212> DNA
<213> Homo sapiens

<400> 187
tataaatctt catggttttt ctatttctga tacactcagc tatagttaat accagagtat 60
cctaccagga gtaatatgtg gaatatata atctagtaaa agaagaaagt tgtacttcct 120
ggctgggagt attaggagat gggagtagag attcactttt aagttcttga aaatatatgc 180
attctcctaa atattaacaa aaatgatttg gggaaatgac atggcttgat tgttctgttt 240
aaatttgtag tgtggcttat gttacacatg ttcatgttca cctctcattc acctgtttta 300

22335_US_Sequence_Listing_060807.txt

tatggtttaa aattctcttt aacaaaattc agaaaattca cctgaaacgt attttgacct 360
 aaaagaaaca tattttttgta tcagtattga attttggaca gtgcccccat ataaggaagt 420
 tactg 425

<210> 188
 <211> 530
 <212> DNA
 <213> Homo sapiens

<400> 188
 tgcttgggtgt gacccacgga ggatccactc ccaggatgac gtgctccgta gctctgctgc 60
 tgatactggg tctgcatgac agcggcgtga ggcctgggct gggtggagaa ggtcacaacc 120
 cttctctgtt ggtctgcctt ctgctgaaag actcgagaac caaccagggg agctgtcctg 180
 gaggtccctg gtcggagagg gacatagaat ctgtgacctc tgacaactgt gaagccaccc 240
 tgggctacag aaaccacagt cttcccagca attattacaa ttcttgaatt ccttggggat 300
 tttttactgc cttttcaaag cacttaagtg ttagatctaa cgtgttccag tgtctgtctg 360
 aggtgactta aaaaatcaga acaaaacttc tattatccag agtcatggga gagtacaccc 420
 tttccaggaa taatgttttg ggaaacactg aaatgaaatc ttcccagtat tataaattgt 480
 gtatttaaaa aaaagaaact tttctgaatg cctacctggc ggtgtatacc 530

<210> 189
 <211> 447
 <212> DNA
 <213> Homo sapiens

<400> 189
 aggaatccta gaccatattt tcaagtcac ttagcagcta ggattctcaa atggaagtgt 60
 tatatataat atgttaaaaa cattttgctt tcctggctaa ttatttgatc cttttaaatc 120
 caaatttgaa tcatttgtca tgtatgatta tttctgttaa atgtacacag tatttaagat 180
 ggatatttgg tggctctatt tgttctgata tcttttggtc taaattatga ggtaccaaga 240
 ttgtttcttt gtttcttttt ttcaaattgt gtttagaaat actgtaataa atatgcagta 300
 gtgatataaa gaattatata caaggtaata taaaagccat tacgtatgaa ctcacccgtg 360
 tctcattttg tgttttatatt tgtgatctct tgtccactaa gtatcttggt aaatgccagt 420
 atctcagtct ttctgaagcc ctgaaat 447

<210> 190
 <211> 484
 <212> DNA
 <213> Homo sapiens

<400> 190
 gatgcggcgg ttttgaaggc gacggggaga cagatcctca ctctccgtgt gaggctcgca 60

22335_US_Sequence_Listing_060807.txt

```

ggggcgcagc tcagctggct gtataaggag gccacagttc aggagggtgga cgtgatccct 120
gaggacgggg cggccgacgt gagggtcac atcagcaact cagcctacgg caaattccgg 180
aagctctttc caggatgaac ggacgcccac agaggcctgc ggggtggggg catcgctgcc 240
tggggagctg aggcgttacc gctgtgttg gggcagcttg gtgtcagggtg cagcagggtc 300
ctccttgtct ggttctgcac ccgtctcgct cccagccatt tgctgggatg accgtgcagg 360
ccggtgacac ggccgcacct gcccacaagc gggccgccc agcgtccact ccaagcctga 420
gcatccacac aattccagtg ggccctcggg gcctgctgtg aactgctttc cctcggaatg 480
tttc 484

```

```

<210> 191
<211> 569
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (182)..(515)
<223> n = any nucleotide

```

```

<400> 191
aagccaagac gttccatggg atttgtgcaa aagagatgaa gacttctcaa tatgcttatt 60
ttgctttgac taattggctc tttttaagag ccaagaaagt gtttctaaaa ttgcttgac 120
tgcccaatcc cagtaatgct gctgcctgac agaaacacac acacagccac agttgccaaa 180
tncccgact ccttgccacg gttctagagc agcgtagaca gctggtaaac tgaagagcac 240
aactatatcc ttatgaagga atttgtacct ttgggggtatt attttgtggc ccgtgaccct 300
cgttattggt acagctgagt gtatgttttt gttctgtgga gaatgctatc tggcattatg 360
gtaatatatt attttaggta atatttgtac tttaacatgt tgcataatat atgcttatgt 420
agctttccag gactaacaga taaatgtgta ataacaaga tatgttgtat gagtngtcgt 480
ttctgtcaga tttgtattgt ttccaaggga aaannttggg ggaggactca gttcacaaaa 540
tgcaaaactc aacgatcaga ttcacggac 569

```

```

<210> 192
<211> 543
<212> DNA
<213> Homo sapiens

```

```

<400> 192
tcctactttg gatttacctt gttctatagg gagaactgag ggaactgcac attcatccaa 60
tacctcagat gtggatttca cgggtgcttc cagtgcacaaa gaaactacct cgtctagcat 120
ttccaggcat tatggattat ctgactccag aaaaagaacg cgtacaggaa gatcttggcc 180
tgctgcaata ccacatttgc ggagaagaag aggtcgtctt ccaagaagag cactccagac 240

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22335_US_Sequence_Listing_060807.txt

tcagaactca gaaattgtaa aagatgatga aggcaaagaa gattatcagt ttgatgaact	300
caacacagag attctgaata acttagcaga tcaggagtta caactcaatc atctaaagaa	360
ctccattacc agttattttg gtgctgcagg tagaatagca tgtggcgaaa aataccgagt	420
tttggcacgt cgggtgacac ttgatggaaa ggtgcagtat cttgtggaat gggaaggagc	480
aactgcatcc tgactgtagg actgaacatt atgttcactg cactctgatt ttctgtaggt	540
aca	543

<210> 193
 <211> 563
 <212> DNA
 <213> Homo sapiens

<400> 193	
tatacatctt gggcaactag ttaccaaattg aattgtgcca ccataactga ttttaatttt	60
gcattatttta tgatttttaa atatttggtg cccaggtggt atgaaagaat aaagctttta	120
agtatagact accttagcat gaagatgctc atgcctaaga atgaaaattg ttgaggttat	180
ctcccattca atcatgtagc aagaacttaa agaaattcac tactgcagtt tttattttta	240
aaaaacagta attgagatat tgaagacatt acaatttagt ttgtgtggtc ttttttttaa	300
ttgctgtatc gttcagtctc ttgtggcaat agcactttga agaaaataga gaatttaata	360
tatggtgatt gggatatgta gcattcaaaa aaagtgaatt gccagatac tgggtgtcatg	420
taaattccca ctttacataa aaacccatca ggacagaatg atgctcaata ttttaaaatt	480
ctaaaaatag ggtgggattt ttcattgtct ctactttata attatcaaaa cttattttgt	540
attgctacta ccttaaattg aaa	563

<210> 194
 <211> 435
 <212> DNA
 <213> Homo sapiens

<400> 194	
cacgctggct gctaagggcg acttggtggt caccgccatc ttcattgggg ctgtggcggc	60
catgactggc tactggttgt cagagcgag tgaccgtgtg ctggagggct tcatctaggg	120
cagataatcg cggccaccac ctgtaggacc tcctcccacc cacgctgccc ccagagcttg	180
ggctgccctc ctgctggaca ctcaggacag cttggtttat ttttgagagt ggggtaagca	240
cccctacctg ccttacagag cagcccaggt acccaggccc gggcagacaa ggcccctggg	300
gtaaaaagta gccctgaagg tggataccat gagctcttca cctggcgggg actggcaggc	360
ttcacaatgt gtgaatttca aaagtttttc cttaatggtg gctgctagag ctttggcccc	420
tgcttaggat taggt	435

22335_US_Sequence_Listing_060807.txt

<210> 195
<211> 319
<212> DNA
<213> Homo sapiens

<400> 195
gagatagctc gcattcagac tacctactaa caatatctgt taaaacatca gctggaccaa 60
ctaattcttcg aatcgaatac caagacggaa aattcagatt ggactctatc atatgtgtca 120
aatccaagct taaacaattt gacagtgtgg ttcatctgat cgactactat gttcagatgt 180
gcaaggataa gcggacaggt ccagaagccc cccggaacgg cactgttcac ctttatctga 240
ccaaaccgct ctacacgtca gcaccatctc tgcagcatct ctgtaggctc accattaaca 300
aatgtaccgg tgccatctg 319

<210> 196
<211> 553
<212> DNA
<213> Homo sapiens

<400> 196
atcagagtct cttgggcatt ttatattttg cattctgatg tacctaggag ttttggttaa 60
cagatgatgt atgtgagtat ttatcccatt ttatgcaatt aaccaaatac accaaaaaa 120
gtgaccatga agtcctgtat ttgtcttttt actacatgta ggaactctca tgtgaatgag 180
tactgtagta atccattcta tgggagcctt atttcagaaa tatttcaaac tgggtgcaa 240
ggaaaagact ttctcttttc ctttaaagct aaagacaaga atatcatgct atacagggtg 300
aactcaatcc ccgttaataa aaaccaatgt aggtataggc attctaccct ttcaaatagc 360
tgtgtcccaa cctgttgcca ttgatttttt ggaaatggct ttagaaatat ccaagttgtc 420
cttgaattgt ctaaccatgg acataaacag ttgtctccct tctactgtgt agaatacttt 480
gacttaattt tcttccagat acagggggat acctgcctgt ttttcaaagt gtttatttac 540
tgctgttact att 553

<210> 197
<211> 525
<212> DNA
<213> Homo sapiens

<400> 197
tgggggaatg aggcttgctg tgttcgggcg tctgctggcc ctgagacatc cagtcttcca 60
cactcaactg tgggatggga ggggtggcgtg gctttacccc atggaggctg ttccagggct 120
ctgggcacac agctgtgctc acacaaaata ctgggtggct tggtttagag ctaattgtag 180
tggaagcctg caaggttgag ggggtgaagg gagggggctt gcaagggtcca ggtaaagatc 240
tggaagaca gaacgtacag cttggagggc aagggggact ctaaagtgcaggagattta 300

22335_US_Sequence_Listing_060807.txt

cagttgggaa aggaggcagt ggcagagggg ttgagggaca ggggccctta agtccagcga 360
 ggaaagctcg gtgtggggcc cgctctacgc tccgtttggg gtgacctgga acgcctcttc 420
 tcccagctcc ctccagccat cagcagcctc ttgtcaagct tctgcctcgc cccagtctat 480
 cccaacccc aaatcaagac cacctttctt caacgggtcac tattt 525

<210> 198
 <211> 449
 <212> DNA
 <213> Homo sapiens

<400> 198
 ggtggacact gacgagctgg acagcaacgt ggacgactgg gaagaggaga ccattgagtt 60
 cttcgtcact gaagaaatca ttccccctcg aatcaggagt gacctggagc actgtgcgca 120
 gccgtgtgtg ctgtggagcc gaggccgtcc tgcaggaagc cgcgtgactc ccgcctcctc 180
 cctgtgctct ctggctctgg actgtgactg cgcctggatt ctgccattgc gacacatttt 240
 tgtgcctttc agccccctgg gtctgcagtg ggggatttaa ggcacccgct tccacttctt 300
 tcttgtttgg agttttctgt tggaaccgcc ggcgttggct ccgaagactt agcgacgcac 360
 tggcggcacc ttctcctcgc cccagtgatg ttccacgggt gcctgtacac agccgagcag 420
 catttccgtt gaaggacttg catccccat 449

<210> 199
 <211> 487
 <212> DNA
 <213> Homo sapiens

<400> 199
 caccatccac ttctttggga acgagactag ccctgggtggg aacgactttg agatctttgc 60
 cgacccccgg actgttggcc acagcgtggg gtctcctcag gacacgggtgc agcgatgccg 120
 ggagattttc ttcccagaga cagctcatga ggcgtgaccg gggccacat ctgtgtgtcg 180
 tgacttctga agagtttggc ctaggcctaa agagagggtcc tgggtgttga tagatgccag 240
 ggccccctct ctggcccagg acgcctgctg caagcccacc cagatggggc cagagtctgt 300
 gtggacaacc gtccccagcc agtctgctcc tagtggcact ggcttcgtcc tcccagggcc 360
 cagagtgttc cccatgctcc acctgggtgcc ccaggccaca gctgctgctt gtatttcggg 420
 acagaagagg ttcttttctg caccaggagg aggcgtgctc aagtatcggt acgagatcta 480
 gcctgcc 487

<210> 200
 <211> 542
 <212> DNA
 <213> Homo sapiens

<400> 200

22335_US_Sequence_Listing_060807.txt

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aggggatttg cttccttggt atgtaaagtt tctcgggtgtg ttctgttaat gtaagacgat      60
gaacagttgt gtatagtgtt ttaccctctt ctttttcttg gaactcctca acacgtatgg      120
agggattttt caggtttcag catgaacatg ggcttcttgc tgtctgtctc tctctcagta      180
cagttcaagg tgtagcaagt gtaccacac agatagcatt caacaaaagc tgcctcaact      240
ttttcgagaa aaatacttta ttcataaata tcagttttat tctcatgtac ctaagttgtg      300
gagaaaataa ttgcatccta taaactgcct gcagacgtta gcaggctctt caaaataact      360
ccatgggtgca caggagcacc tgcattccaag agcatgctta cattttactg ttctgcatat      420
tacaaaaaat aacttgcaac ttcataactt ctttgacaaa gtaaattact tttttgattg      480
cagtttatat gaaaatgtac tgattttttt ttaataaact gcatcgagat ccaaccgact      540
ga                                                                    542

```

```

<210> 201
<211> 245
<212> DNA
<213> Homo sapiens

```

```

<400> 201
tcagcaagct ccagtgtac gtgtccctgg cattttaggt gtcggttggg taggcagtca      60
tggatcaggt aatgcagttt gttgagccaa gtcggcagtt tgtaaaggac tccattcggc      120
tggttaaaaag atgcactaaa cctgatagaa agaattcca gaagattgcc atggcaacag      180
caataggatt tgctataatg ggattcattg gcttctttgt gaaattgatc catattccta      240
ttaat                                                                245

```

```

<210> 202
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 202
gaagactctg gaccaggctt tagaggatgt agaccagtgc tgtcaagctc tctctcaaag      60
actgggaaca caaccgtatt tcttcaataa gcagcctact gaacttgacg cactgggtatt      120
tggccatcta tacaccattc ttaccacaca attgacaaat gatgaacttt ctgagaaggt      180
gaaaaactat agcaacctcc ttgctttctg taggagaatt gaacagcact attttgaaga      240
tcgtggtaaa ggcaggctgt catagagtta tgtgttagtc tcaggagtct taacttttga      300

```

```

<210> 203
<211> 551
<212> DNA
<213> Homo sapiens

```

```

<400> 203
taacagctgc acttctattg tcgggaattc ctgccgaagt gataaatcga tcaatggata      60

```

22335_US_Sequence_Listing_060807.txt

```

cctatagcaa aatgggcgaa gtcttcacag atctctgtgt ctactttttc acttttatct 120
tttgtcatga actgcttgat tattggggct ctgaagtacc atgaagcctg tagaactgag 180
aaggagaagc ttacgaaaaa aatcctcttc tatattgcag tgtctctaaa ggaggcaaat 240
tggtttacac cttcatgtaa ttcttttact ttaggggttg taaagctact ttattagata 300
tagaatggca gattctctga tttaaaaggg ctgagtttgt attattactg atatgaagaa 360
tagagtacca atgtcattaa ttgatttttc ttgttaatca gaattcctat tctgtacctt 420
tcctctaact tctcagattt gtaattcttc ttttcgggag ctgagctagt gcttttagga 480
gaacagataa atgtgggtctc agccagccct agagactgct tcttgtgttt gtgtcattct 540
gtcctgagaa a 551

```

```

<210> 204
<211> 563
<212> DNA
<213> Homo sapiens

```

```

<400> 204
gaaggcgcat tatgttgtcg tgtgtttcag tttcacatta aactgaacct tttactaatt 60
gtgagctaaa gagatatata tatatatgtg tgtgtatata tatatatcta catgtctttc 120
tgtagcctct gcatactact ggctgtcatc acaccagcgt acagtagcta aatttttggt 180
gcaattatta gcaaatgata atgttccctt ttgaactttt acattttggc atgacatttc 240
agagtattgt gggaccatga gacaaaatta agtacgatca cattctttat ttctcatttt 300
aaagaaatga tgttggttta ctttttccta gttgaagata gtaattaggt ttctaagctg 360
tatactgtgt ttattgggtg cagtgcacc caaagataga ggcaatggat agaaattttt 420
aaactggaaa gaaaacctga attacactac attttcgaag tctcttgtaa ttatttgga 480
tatcaacaaa atttgattcg tctgtctaata cccttgctag tatttttaa atgtctttaa 540
cacattgtat cctttaattc ttc 563

```

```

<210> 205
<211> 515
<212> DNA
<213> Homo sapiens

```

```

<400> 205
tgctgggatg accagcatca gcccgaatgt ccagcctctt taacatcttc tttcctatgc 60
cctctctgtg gatccctact gctggtttct gccttctcca tgctgagaac aaaatcacct 120
attcactgct tatgcagtcg gaagctccag aagaacaaag agcccaatta ccagaaccac 180
attaagtctc cattgttttg ccttgggatt tgagaagaga attagagagg tgaggatctg 240
gtatttcctg gactaaattc cccttgggga agacgaaggg atgctgcagt tccaaaagag 300
aaggactctt ccagagtcac ctacctgagt cccaaagctc cctgtcctga aagccacaga 360

```


22335_US_Sequence_Listing_060807.txt

caatatgggc ccaaatgact gactgcacct tctgtgcctc agccgttctt gacatcaaga	420
atcttctgtt ccacatccac acagccaata caattagtca aaccactgtt attaacagat	480
gtagcaacat gaaagacgct atgttacagg ttaca	515

<210> 206
 <211> 541
 <212> DNA
 <213> Homo sapiens

<400> 206	
ctatgtgctc cagggggacc caagagcagt ttccacccag cccaatccc agtctggcac	60
cagcgatcag gtcctttatg ggcagctgct gggcagcccc acaagcccag ggccagggca	120
ctatctccgc tgtgactcca ctacagcccct cttggcgggc ctacccccca gcccgaagtc	180
ctatgagaac ctctggttcc aggccagccc cttggggacc ctggtaacct cagccccaag	240
ccaggaggac gactgtgtct ttggggccact gctcaacttc cccctcctgc aggggatccg	300
gggtccatggg atggaggcgc tggggagctt ctagggtctc ctgggggttc cttcttgggc	360
ctgcctctta aaggcctgag ctagctggag aagaggggag ggtccataag cccatgacta	420
aaaactaccc cagcccaggc tctcaccatc tccagtcacc agcatctccc tctcctccca	480
atctccatag gctgggcctc ccaggcgatc tgcatacttt aaggaccaga tcatgctcca	540
t	541

<210> 207
 <211> 437
 <212> DNA
 <213> Homo sapiens

<400> 207	
ctaggagggtg cacggggccac catagtcaca ctggcactga aaagaaagcg ttgccctggt	60
gattctttcc ccccgtttg taatgttaac tgatcaggaa gtgcagtttg ggtgggatgc	120
cgaatcgtcg tgctgacatt gagtcacgga tgaggaaggt acaagtcctt taagatcaaa	180
actcaaacgg gccgttcttt ctaagggtgc ggtatgtggg gagtggtaca aaatggctctg	240
atgctccttc aaaaacattc actttttaca acgtcaagga attaagcata aaaaagattg	300
gttaaaagct ttggtttcta gtaaagggtta gtgtgtgtgg tttttttaag aagctgtttt	360
gctaaattat ttttacttgg aatgtttcaa acagatttca ggctgcaaac ttgttttata	420
atcgtttgct tctccaa	437

<210> 208
 <211> 542
 <212> DNA
 <213> Homo sapiens

22335_US_Sequence_Listing_060807.txt

<400> 208
atcccataat gggttcagctg cttcaaaagg ctatgtctgc tcttcagtaa tgacatgaaa 60
tctttgttca tctccacttt gtgctaacc attcatagtt ggcagttaaa cacatactcc 120
aaaagactgc tactatctac tatTTtaaga atgtaattga ttgttcggta tttcctatcg 180
acgtttatTT acctcttttag cacttatact ttagcataaa aaatgttgag ttatcaccac 240
ctttcaattc catggacctg atTTttccag aaagatgttt tcctctttca gatttttgta 300
caaggctaaa atgtctttcc catccataac caagtcctcc tatgggtaca taaacccaaa 360
gtccccactt cttttaaagg gatatgatca agttataaca tgtaccctgc ttcccccaac 420
cctgcctttt tcactaaata agcatgtagc tcagtggttt ccaaatttgg ctgcacattc 480
ataccaatca ccaggggatt tttttaaaat cctgatgccc aacttgcact ccacattaat 540
ta 542

<210> 209
<211> 437
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (148)..(148)
<223> n = any nucleotide

<400> 209
ccaacaacaa aagcccctga ctgtccgtca agcaggcagc ggggatgtag ctctctctgc 60
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ccagctagat catgcactgt tgaccacntg agcaatctgt gttacactag agttcacagg 180
gcattttgag tgtagacgtg agtgcttaaa catatttggg tttctctctc aggtttttaa 240
tgtttcaaat gtaattgttg ctcatcagtg cagttatcaa tgcaatttta tattccttga 300
ggggagaaaag aggggtctta ttgtacatgt ccaagggggg tgataagagt attatctggt 360
taatttaatt ggaacaaacc attgtcttaa cgcagccatg gtttgaattt gttatcttgg 420
gctgaccggt gcatgta 437

<210> 210
<211> 486
<212> DNA
<213> Homo sapiens

<400> 210
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gatatttcag tgcagaaaac cccacaaaaa gccacaacag gtcgctcatc ccgtcagtca 120
tcctttattg cagtcgggat ccttgggggt gttctgttgg ccattttcgt cgcattattc 180

22335_US_Sequence_Listing_060807.txt

ttcttgacta aaaagcgaag acagagacag cggcttgag tttcctcaag aggagagaac	240
ttagtccacc aaattcaata ccgggagatg aattcttgcc tgaatgcaga tgatctggac	300
ctaatgaatt cctcaggagg ccattctgag ccacactgaa aaggaaaatg ggaatttata	360
accagtgag ttcagccttt aagatacctt gatgaagacc tggactattg aatggagcag	420
aaattcacct ctctcactga ctattacagt tgcattttta tggagttctt cttctcctag	480
gattcc	486

<210> 211
 <211> 555
 <212> DNA
 <213> Homo sapiens

<400> 211	
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gaatgaggga acatgtaatg aatgaggttg atactaaca agacagattg gtgactctgg	180
aggagttttt gaaagccaca gaaaaaaaaag aattcttgga gccagatagc tgggagacat	240
tagatcagca acagttcttc acagaggaag aactaaaaga atatgaaaat attattgctt	300
tacaagaaaa tgaacttaag aagaaggcag atgagcttca gaaacaaaaa gaagagctac	360
aacgtcagca tgatcaactg gaggctcaga agctggaata tcatcaggtc atacagcaga	420
tggaacaaaa aaaattacaa caaggaattc ctccatcagg gccagctgga gaattgaagt	480
ttgagccaca catttaaagt ctgaagtcca ccagaacttg gaagaaagct gttaactcaa	540
catctatttc atctt	555

<210> 212
 <211> 498
 <212> DNA
 <213> Homo sapiens

<400> 212	
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ctgcccactc tcagggtactg agactttgtg ggcctcagac accaggaaga aagttgggat	180
acagtcattt gagttaaaaa gggaatgacc cctcagaaac ccacattagc agtgttactc	240
ttggaactgc ctttactttt aacgctctct gttctgaaaa agagggtgtt ggttacgtgt	300
gagccaacat cacgttttgt tagctgtgat ttacctttgt ccgttttaaaa gacttcacgg	360
agccattctg tatacaaggt gtgctctttc caatgtagaa ggggttatgg aaaagggtgc	420
gatcctttgc tgtaaactgg agagaccagt cccaaacaga ggggaatttt aagcccttct	480
catcacccaa ttggatgt	498

22335_US_Sequence_Listing_060807.txt

<210> 213
<211> 522
<212> DNA
<213> Homo sapiens

<400> 213
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taattctaac cagttgtttg cttttaaatg agtgatttca ttttgggaaa caggtttcaa 180
atgaatatat atacatgggt aaaattactc tgtgctagt tagtcttact agagaatggt 240
tatgggtccca ctgttatatg aaaatgtggt tagaatgtta attggataat gtatatataa 300
gaagttaaag tatgtaaagt ataacttcag ccacatTTTT agaacactgt ttaacatttt 360
tgcaaaacct tctttagtaga aaagagagct ctctacatga agatgacttg ttttatattt 420
cagattttat tttaaaagcc atgtctgtta aacaagaaaa aacacaaaag aactccagat 480
tcctggttca tcattctgta ttcttactca ctttttcaag tt 522

<210> 214
<211> 501
<212> DNA
<213> Homo sapiens

<400> 214
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tatagaatat aactgaccat aaaaattacc tgcaggtatt ttctttttat gaacttgttt 120
ttaaattacc aagtaattac tgggtgtcatt ttgtttttatg acagacacac gtatctaaca 180
aacaacaaa cagtgacctt ctccatgggt caaggacttc cttacaattt ctctgagtt 240
aacttttgtg aaaataatac ctaagggttt ctggcttatt gaggaaattt cctaacaac 300
aaacaacaa acaaacagaa gagaagatca ttaaccactg tatactttgt gtatataata 360
ggtcagtgta aagaaatatg atttgaggtg gtgcatgcaa gtaactaggg tttattctat 420
ataatgaata tttatagatc tgtaacattt gtttcaaaat gctgtttcat tttataaag 480
taccagtgtt tagctgcttt t 501

<210> 215
<211> 507
<212> DNA
<213> Homo sapiens

<400> 215
agagtcaccc attccgagag cagattcaga gaaaaagtgg gtttaccctt ctgagcagat 60
gttctggaat gcaatgttaa agaaaggggtg gaagtggaag gatgaggata tcagtcagaa 120
ggatatgtat aatatcatta gaattcacia tcagaataac gagcaggctt ggaaggagat 180

22335_US_Sequence_Listing_060807.txt

tttgaagtgg gaagcccttc atgctgcaga gtgtccttgt ggtccatcat tgatccggtt	240
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gttgcctttt gataggcacg attggatcat aaaccgttgc gggacagaag ttagatatgt	360
gattgattat tatgatgggtg gtgaagtcaa caaggactac cagttcacca tcctggacgt	420
ccgtcctgcc ttagattcac tttcggcagt atgggacaga atgaaagtcg cttggtggcg	480
ttggacctcg taaagcactg tttcaga	507

<210> 216
 <211> 460
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (57)..(404)
 <223> n = any nucleotide

<400> 216	
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ggagatgctg gagatcatcg aggctatcta caaaatggta ggcactgtga tcatgatgaa	120
aatgaatgag gatggcctga cgcctgagca gcgagtagac aagattttca gcaagatgga	180
tangaacaaa gatgaccaga ttacactggg tgaattcaga gaagctgcaa agagcgaccc	240
ttccattgta ttacttctcc agtgcgacat ccagaaatga gctgatgtca atgctatggg	300
ctnccccaa gtctcnatgt tccattcagt ctgcagctat tcacacacac acacacacac	360
acacacacac acacacacac acacacacnc aaatattgct tggntacct ataaatggac	420
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<210> 217
 <211> 453
 <212> DNA
 <213> Homo sapiens

<400> 217	
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gggcgcttc aggctagctc ccgccctgcc tgcctggccc caccgaggcc tgagcacgtt	120
cccgggtgcc gagcactgcc tccgggcctc ccctgagacc aactcagca gtggcttctt	180
cgttgctgta attgaacggg tcgaggtgcc aaggtagtg agtgggggag tgcttgggag	240
gcgcaggatg gcaccggcac atctaacatc tacacttctc tagctcagcc tcacaggcca	300
aagcatcagc accagaacgc acaccagcc cagcccaaaa gagaaagaag agacagcaaa	360
gagccgcagc cgggtgcttgc acaccgcctt gcacatagca gaggctccgg gctgactcct	420

tcctggtggg aaaggaagat gcctgtcctc tcc

453

<210> 218
 <211> 513
 <212> DNA
 <213> Homo sapiens

<400> 218
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 cccagaccaa tgtgagcctg cccccaagcc ccctctcatt ggaagtggca aggggcttcc 120
 ctctggggg cagctacact cgtccccaga ggcacattcg tgcacattct cacagacacc 180
 gtctcacacg ttggcttttg acaaccaggc cccaacttgg tccctgccct agggacctcc 240
 agcctggtgc ccagtgtca ggccacctcc tgggtccagtc accacctgca gcctcggcag 300
 ggcaggtaca gggggcacct cggatgggag cctgggtccc tgcctccgct ctgcccctgg 360
 gtggctggga ggagaggccc tctcgggggt gacctgggcg tcagccgtgg aacccccctc 420
 tcctccctgg agtctgcctg agtccctcga gccgcgagcc ttcgctgaag tgcccttgct 480
 ataacccccct ctgcttctgg tgtgtgacga ggc 513

<210> 219
 <211> 498
 <212> DNA
 <213> Homo sapiens

<400> 219
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 cagcgtcccc ccacagctac tacctgacac tgagctcatg cagagagatg atggctgatg 120
 ttccttctcc cttgggacat gggctctggca cctgtgggct gtcgatagtg ccctctgagc 180
 agagggtcac ggtcatgtca gtttggggga attctctggt gtgcctcaga gactcccccc 240
 tttctttcct cctccccctt ctcatthtga tgtctaaagc atcaagtccc tcttcctcag 300
 agtttctcta gctgcagtgg aagattctgt tttcctgtgg ggaaaatgct cacttgagat 360
 tttgcaggga cccgggtctg tctggtttct gatgacatag taagagaaag gtcttttttc 420
 aggttggctg gtgaaaggaa ttgcatgtga ctcacacaaa caggagctag cccaatcata 480
 cactgactcg cgtgggtg 498

<210> 220
 <211> 527
 <212> DNA
 <213> Homo sapiens

<400> 220
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 tgagtgggtg gtcagaaaat acccatgctg atgaaatgac ctatgcccaa agaacaaata 120

22335_US_Sequence_Listing_060807.txt

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gggaggcttc accttaaaaa cagtgtgcaa atggcagcta gaggttttga taggaagtat	240
gtttgtttct tagtgtttac aaatattaag tactcttgat acaaaatata cttttaaact	300
tcataacctt ttataaaaag ttgttgcagc aaaataatag cctcggttct atgcatatat	360
ggattgctat aaaaaatgtc aataagattg tacaaggaaa attagagaaa gtcacattta	420
gggtttatatt ttacacttg gccagtaaaa tagggtaaatt cctattagaa attttttaaa	480
gaactttttt taagtttcct aaatctgtgt gtgtattgtg aagtgggt	527

<210> 221
 <211> 487
 <212> DNA
 <213> Homo sapiens

<400> 221	
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gcgcaaaggc cgcgtgggcc cactcctcgc ctgcatcatc ggtacccagt tcaggaagct	120
ccgggatggg gatcggtttt ggtgggagaa cgagggtgtg ttcagcatgc agcagcgaca	180
ggccctggcc cagatctcat tgccccgat catctgcgac aacacaggca tcaccaccgt	240
gtctaagaac aacatcttca tgtccaactc atatccccgg gactttgtca actgcagtac	300
acttcctgca ttgaacctgg cttcctggag ggaagcctcc tagaggccag gtaaggggggt	360
gcagcagtga ggggtatata tgggctggcc agttggaacc acggagatct ccttgcccta	420
gatgagccca gccctgttct ggggtgcagct gagaaaatga gtgactagac gttcatttgt	480
gtgctca	487

<210> 222
 <211> 480
 <212> DNA
 <213> Homo sapiens

<400> 222	
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gtggcttgct agctatgtga ccttgagcaa attaccctcc ttaaacaaga gttttcttcc	120
ttgtaaatta catctgtcat ggtttcttgg agggcccact tgtatcctct ggttcttcat	180
ttattgagca cctactacat gcaaggcact gtactaggcg tgagaagcat atagaggcaa	240
gaaagagata ccaagatgcc atctgtgtcc tggttagcag agctggacca gtggtgcctt	300
ggagggataa gccagctgca gctgggctgt gtggttgact tatgggcca gccagccagg	360
ctcaggccat ggctcccctt tttcttcctc accctgattt cttgcttatt cactgaagtt	420
ctcctgaaga ggaactgggc ctgttgccct ttctgtacca tttatttgct cccaatgttt	480

22335_US_Sequence_Listing_060807.txt

<210> 223
 <211> 332
 <212> DNA
 <213> Homo sapiens

<400> 223
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 actcagatgc cccaagatgt ccgttgggaa gctcccagga cagcactttt tatacagagg 120
 acaccgcctc ggccccacgt ccttagaggc cagagcacat ctgaaaactg caatcacagc 180
 cgtccgctgg aaaaacgttt cgaagcacag tggccagcga gcgagcacgt ggctactccc 240
 tgttgcatgt caaatccaca cagatgtcag cggcagctgc tcggcagccc agccctgggc 300
 ctgggtgggt tcatgtccaa tcttgttcga tc 332

<210> 224
 <211> 292
 <212> DNA
 <213> Homo sapiens

<400> 224
 tgatctctgt ctgagctctg aaggggtccga agtgatttta gctacatcaa gtgatgaaaa 60
 acaccacct gaaaatatca ttgatgggaa tccagaaacg ttttggacca ccacaggaat 120
 gtttccccag gaattcatta tttgtttcca caaacatgta aggattgaaa ggcttgtaat 180
 ccaaagttac tttgtacaga ccttgaagat tgaaaaaaca cgtctaaaga gccagttgat 240
 tttgagcaat ggattgaaaa agatttggtgta cacacagagg ggcagcttca aa 292

<210> 225
 <211> 530
 <212> DNA
 <213> Homo sapiens

<400> 225
 aagcggcgca accaggagat gcagcagaag ttggtggagc tgtcggctga gaacgagaag 60
 ctgcaccagc gcgtggagca gctcacgcgg gacctggccg gcctccggca gttcttcaag 120
 cagctgcca gcccgccctt cctgccggcc gccgggacag cagactgccg gtaacgcgcg 180
 gccggggcgg gagagactca gcaacgaccc atacctcaga cccgacggcc cggagcggag 240
 cgcgccctgc cctggcgcag ccagagccgc cgggtgcccg ctgcagtttc ttgggacata 300
 ggagcgcaaa gaagctacag cctggactta ccaccactaa actgcgagag aagctaaacg 360
 tgtttatattt cccttaaatt atttttgtaa tggtagcttt ttctacatct tactcctgtt 420
 gatgcagcta aggtacattt gtaaaaagaa aaaaaaccag acttttcaga caaacccttt 480
 gtattgtaga taagaggaaa agactgagca tgctcacttt tttatatata 530

<210> 226
 <211> 423

22335_US_Sequence_Listing_060807.txt

<212> DNA
<213> Homo sapiens

<400> 226
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taagccatag acactatagt ataccagtga atcttttatg cagcttgcta gaagtatcct 120
tttattttct aaaagggtgct gtggatatta tgtaaaggcg tgtttgctta aacaattttc 180
catattttaga agtagatgca aaacaaatct gcctttatga caaaaaata ggataacatt 240
atttatttat ttccttttat caataaggta attgatacac aacagggtgac ttgggttttag 300
gcccaaagggt agcagcagca acattaataa tggaaataat tgaatagtta gttatgtatg 360
ttaatgccag tcaccagcag gctatttcaa ggtcagaagt aatgactcca tacatattat 420
tta 423

<210> 227
<211> 489
<212> DNA
<213> Homo sapiens

<400> 227
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gcaaagtttt tgtttgtgaa tagtacttgc aaaacttgta aattagcaga tgactttttt 120
ccattgtttt ctccagagag aatgtgctat atttttgtat atacaataat atttgcaact 180
gtgaaaaaca agttgtgcca tactacatgg cacagacaca aaatattata ctaatatgtt 240
gtacattcgg aagaatgtga atcaatcagt atgttttttag attgtatttt gccttacaga 300
aagcctttat tgtaagactc tgatttccct ttggacttca tgtatattgt acagttacag 360
taaaattcaa cctttatttt ctaatttttt caacatattg tttagtgtaa agaattatta 420
tttgaagttt tattatttta taaaaaagaa tatttatttt aagaggcatc ttacaaattt 480
tgccccctt 489

<210> 228
<211> 501
<212> DNA
<213> Homo sapiens

<400> 228
actagcactg tctcctaaac ttgtaagagg tctgaagcta ttctttgatt tttgctagtg 60
ctattaactt atgtagacct gttaaaaagc agagcaacac aattatagtt atcctactga 120
gccatggatt ctgagttttg ttttaaaagt gaaagccaag ttggtgtatg taaaggattt 180
ccatgtagct gtggtgctag ttattactgg ctacattata tgctaagtgt atttgtgttc 240
ccaagtgtga caagccttct atcaaaagta tgttctataa ctcatatatt caagggtgtag 300
ggatgaaaa tgcaaagttt aggagagcac ttaccaagc tgggtgtcctc caaactgaaa 360

22335_US_Sequence_Listing_060807.txt

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gacaactaac ttcttgctgc tgtatagtaa aatattaata tatttttatc attaaactgc 480
tgcattgacta tcattcttga g 501

<210> 229
<211> 223
<212> DNA
<213> Homo sapiens

<400> 229
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tgactgtgga caacaagcgc ttcttcttcg atgtgggctc caacaagtac ggcgtgttta 120
tgcgagtgaag cgagggtgaag cccacctatc gcaactccat caccgtgcc tacaagggtg 180
gggccaagtt cggacacacc ttctgcaagt actcggagga gat 223

<210> 230
<211> 428
<212> DNA
<213> Homo sapiens

<400> 230
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ccagcagccc tggcttgggg gcttgacgcc cttccccttg cccagggcca tcattctccc 120
acctctctc cctctctctc agttttgccg actgcttttc atctgagtca ccatttactc 180
caagcatgta ttccagactt gtcactgact ttccttctgg agcagggtggc tagaaaaaga 240
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ctgccgtgga ttctccccct gtcttctccc ctcagcaatt cctgcaaagg gttaaaaatt 360
taactggttt ttactactga tgacttaaaa aaaatacaaa gatgctggat gctaacttga 420
tactaacc 428

<210> 231
<211> 509
<212> DNA
<213> Homo sapiens

<400> 231
aatattatatt gcttctgtgg ttgtaaaaat gctgttgcta aagggtggcgc agaaacaaat 60
atcagtgtta gtcattgata atgtctgaag cttaatgtcc agtgattggc ctttgcttct 120
taatttatatt taatttttta cttgtgccac ttaatatcag gcattttaat aaaatattgt 180
tacaacaaat gtacagtact gacaccacca caaatcatgg ttaataaaag agagtagttt 240
taactttatt tttatttggt tagagatttt aagttggaac agtatattcc cattgactac 300
ttttcattct tcaactgtagt tttaagaag aactgtaaat gacggtgcta tacaagtcaa 360

22335_US_Sequence_Listing_060807.txt

aaaatacatg cctgcctcgt agtgaagttg tagctctccg taatatgtat attttactca	420
gttttcaaca ttttgtgaat gttgactacc tgaagttcct ttttagatgt gctattaaca	480
ttctgttgga ttcagagggt tccttgaaa	509

<210> 232
 <211> 350
 <212> DNA
 <213> Homo sapiens

<400> 232	
gatgcattctg ctcagactac ttctcatgaa ctcaccattc caaacgattt gattggctgc	60
ataatcgggc gtcaaggcgc caaaatcaat gagatccgtc agatgtctgg ggcgcagatc	120
aaaattgcga acccagtggg aggatctact gataggcagg ttaccatcac tggatctgct	180
gccagcatta gcctggctca atatctaata aatgtcaggc tttcctcggg gacgggtggc	240
atggggagca gctagaacaa tgcagattca tccataatcc ctttctgctg ttcaccacca	300
cccatgatcc atctgtgtag tttctgaaca gtcagcgatt ccaggtttta	350

<210> 233
 <211> 495
 <212> DNA
 <213> Homo sapiens

<400> 233	
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cagctgaggg tggcgccgac cttgtcctgc tggacaactt caagccagag gagctgcacc	120
ccacggccac cgcgctgaag gccagttcc cgagtgtggc tgtggaagcc agtgggggca	180
tcaccctgga caacctcccc cagttctgcg ggccgcacat agacgtcatc tccatgggga	240
tgctgaccca ggcgggtccca gcccttgatt tctccctcaa gctgtttgcc aaagagggtg	300
ctccagtgcc caaatccac tagtcctaaa ccggaagagg atgacaccgg ccatgggtta	360
acgtggctcc tcaggaccct ctgggtcaca catctttagg gtcagtgaac aatggggcac	420
atttggcact agcttgagcc caactctggc tctgccacct gctgctcctg tgacctgtca	480
gggctgactt cacct	495

<210> 234
 <211> 566
 <212> DNA
 <213> Homo sapiens

<400> 234	
gagagccctg aaactattag cacggagaag ccctcacttc ttccagccaa ccaaccagca	60
gtttaaaagt ttacaagaat atcttgaaaa tatggtaata aagctagcca aggaattacc	120
gcctccttct gaagaaataa aaacagggtga ggatgaagat gaggaagata atgatgctct	180

22335_US_Sequence_Listing_060807.txt

actgaaggaa aatgaaagtc ctgatgttcg gcgagacaaa cctgtaacag gagaacaaat	240
agaggtatatt gccacaagc tgggtgaaca atggaagatt ctggctccct acttggaat	300
gaaagactca gaaattaggc agattgagtg tgacagtga gacatgaaga tgagagctaa	360
gcagctcctg gttgcctggc aagatcaaga gggagtccat gcaacacctg agaattctgat	420
taatgcactg aataagtctg gattaagtga ccttgcagaa agtctaacta atgacaatga	480
gacaaatagt tagcttcttt ttttttctt tttattaaaa ctgtgataga ttttgttacc	540
aagcagcatt tgataagagg tccact	566

<210> 235
 <211> 532
 <212> DNA
 <213> Homo sapiens

<400> 235	
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agcagctcta aaacatagac tgaagattta tttttaatat gttgacttta tttctgagca	480
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<210> 236
 <211> 535
 <212> DNA
 <213> Homo sapiens

<400> 236	
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 <212> DNA
 <213> Homo sapiens

<400> 237
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 cgtctgggggt ttacgggtgt gcactgggtg ctgcacagac ttgtcaagggt ttgctacgtc 180
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<210> 238
 <211> 283
 <212> DNA
 <213> Homo sapiens

<400> 238
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<210> 239
 <211> 411
 <212> DNA
 <213> Homo sapiens

<400> 239
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